

# Heterogeneous Distributed Environment

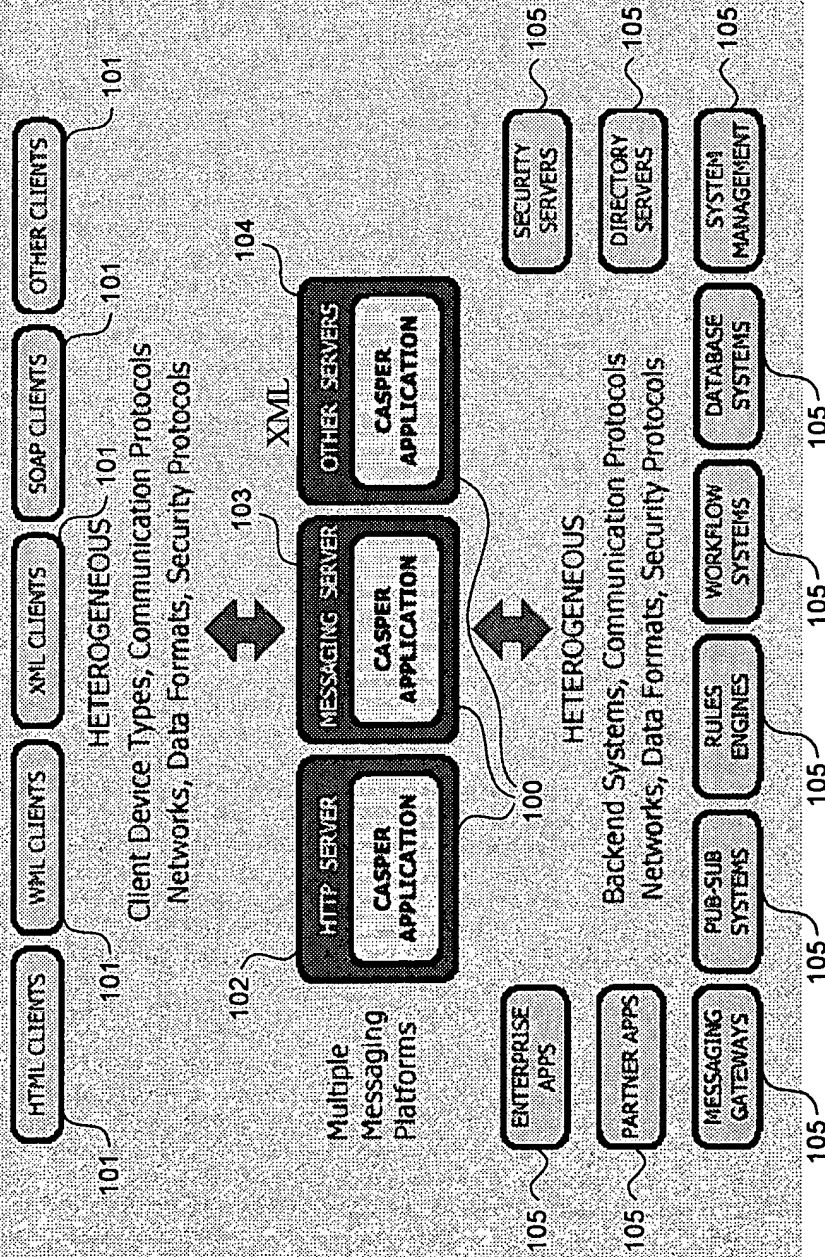


Fig. 1

# Container and Framework Overview

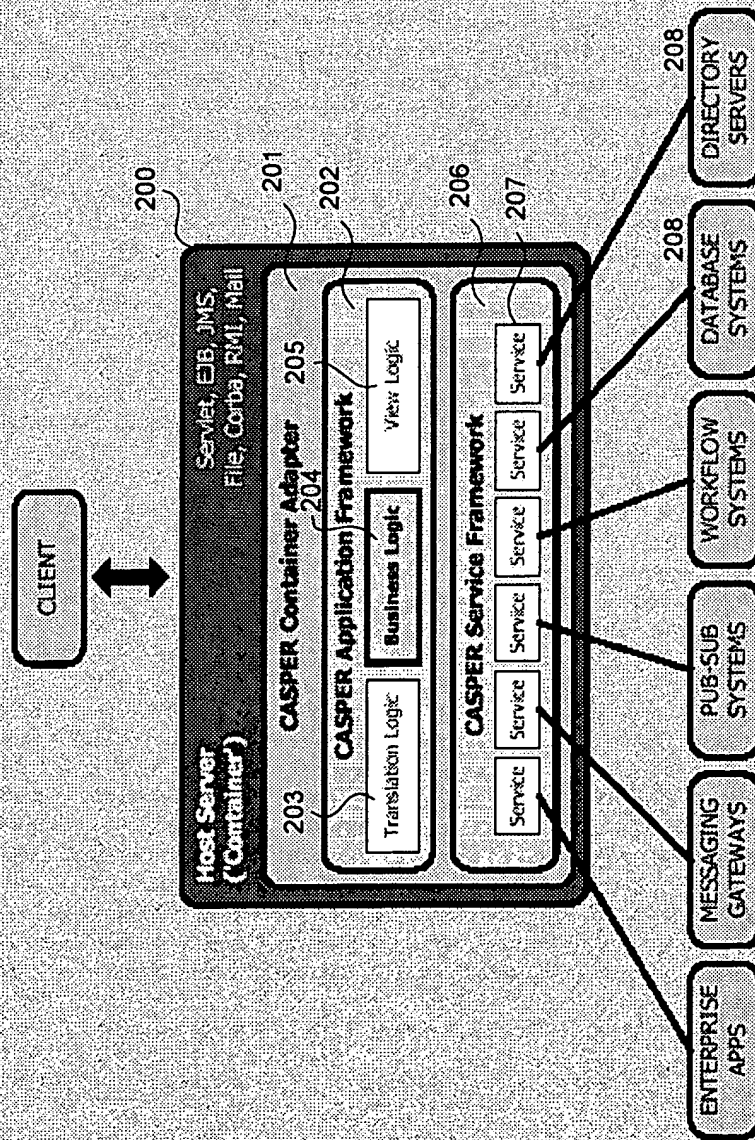


Fig. 2



# Published XML-Defined Action Interface

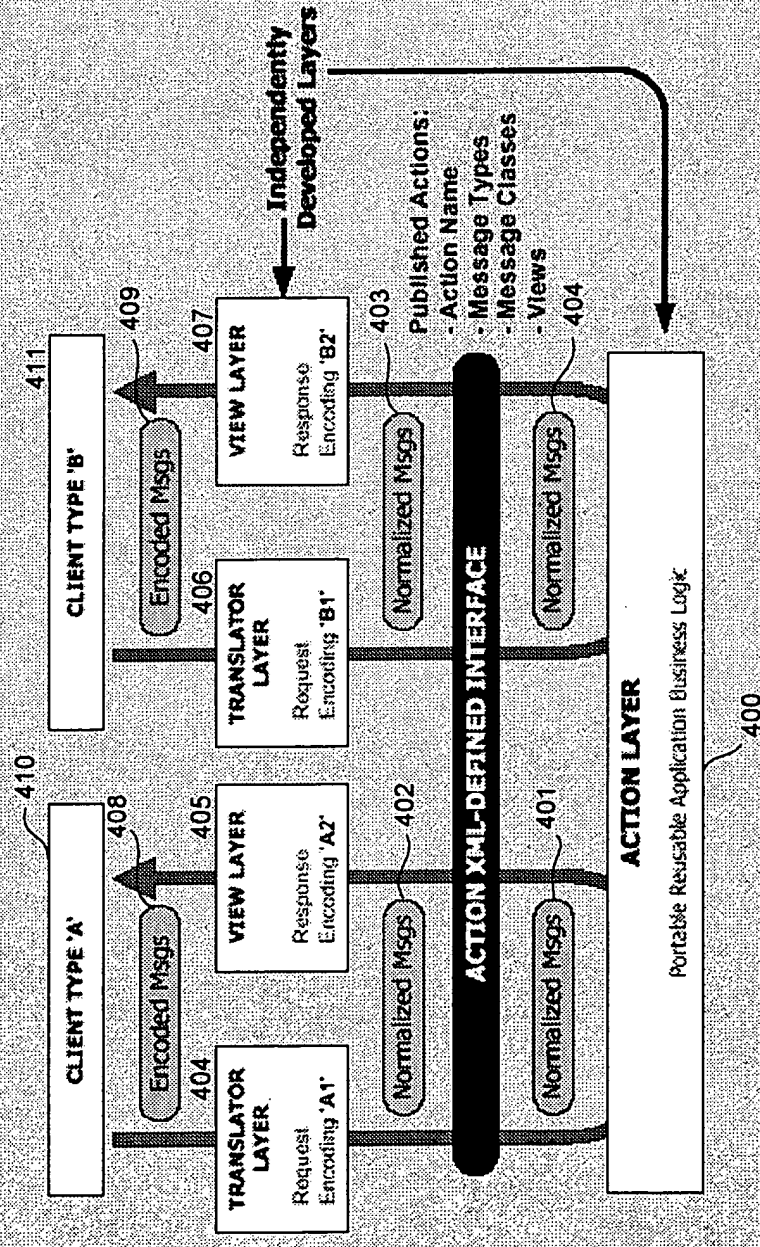


Fig. 4

# Application Request Lifecycle Overview

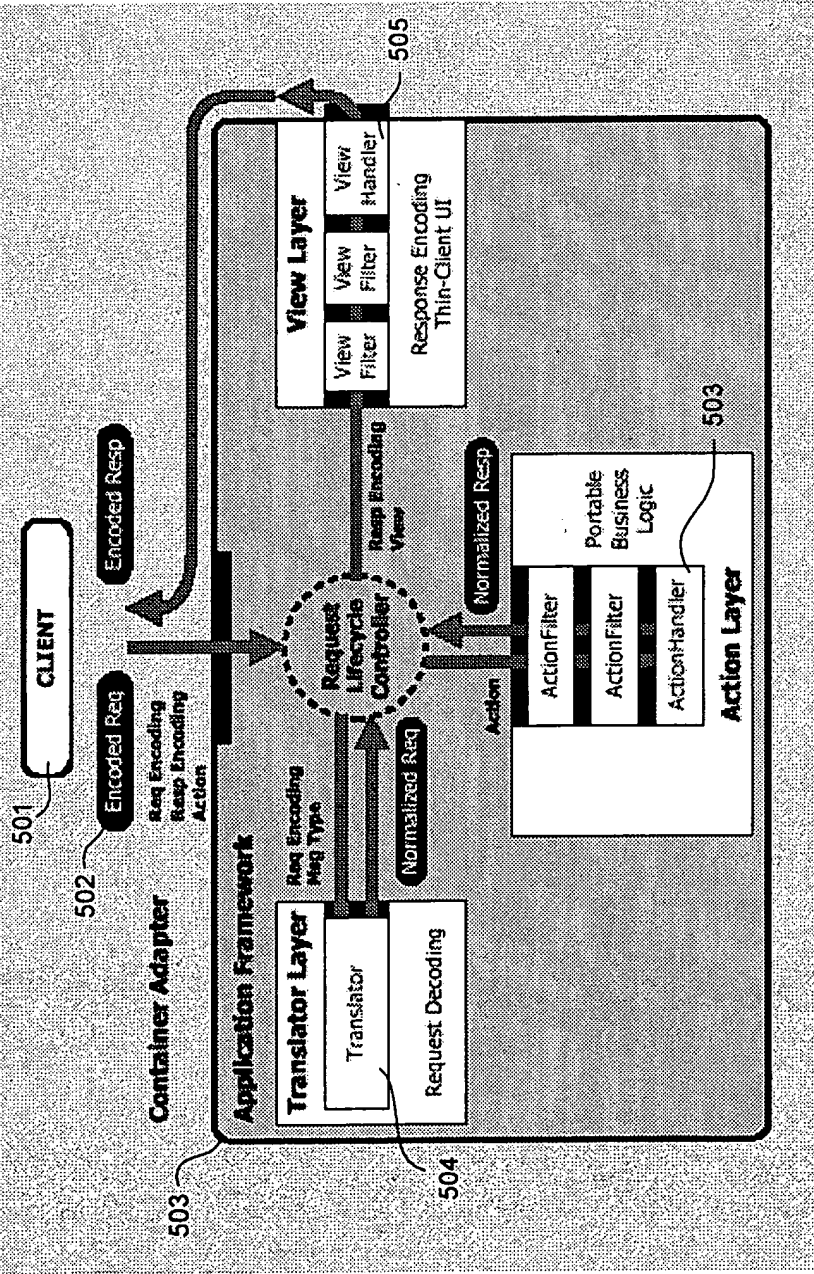
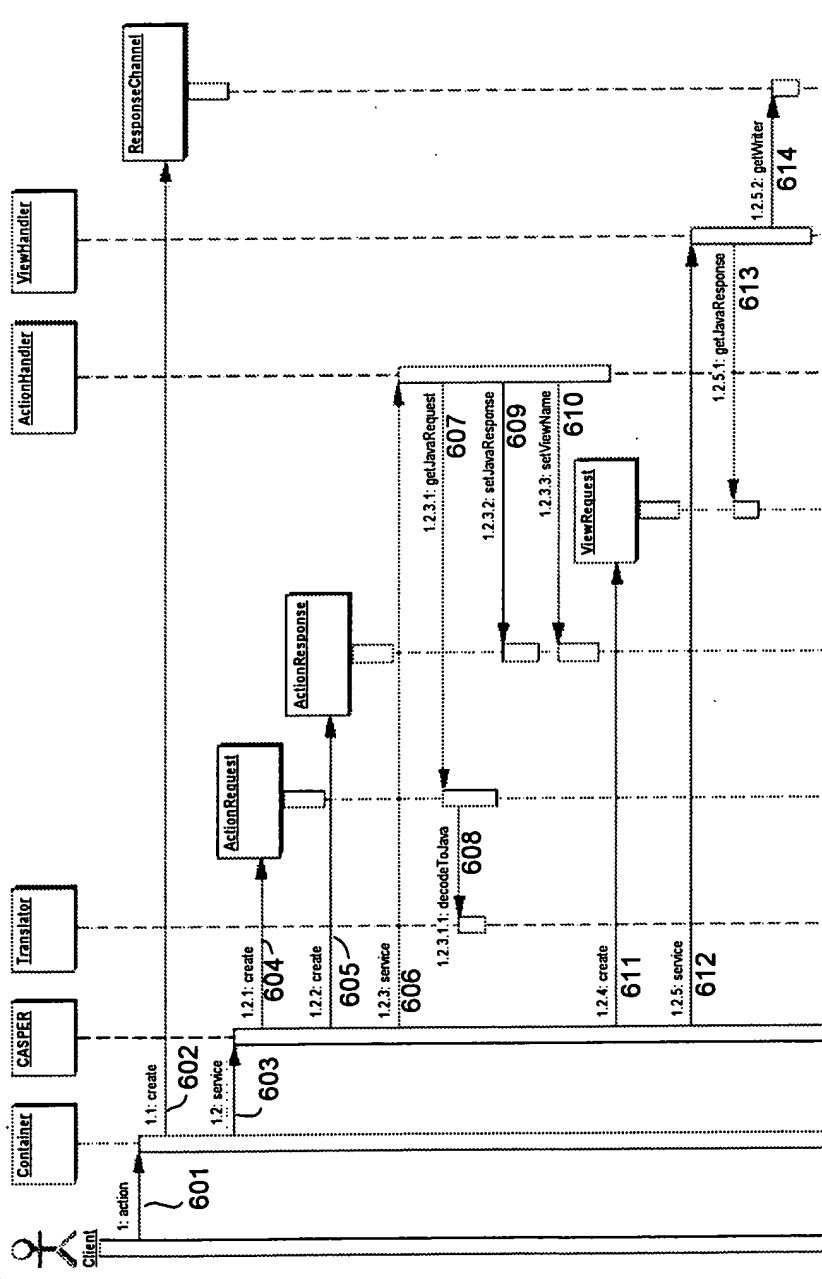


Fig. 5

# Application Request Sequence Overview



**Fig. 6**



# Action Layer Components

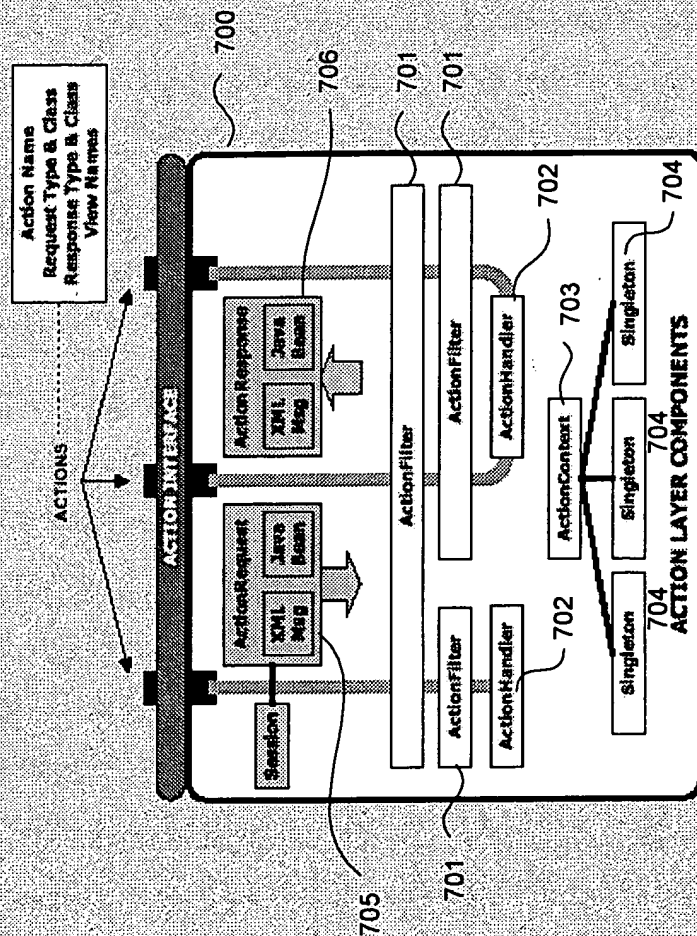


Fig. 7





# Action Layer Dynamic Dispatch

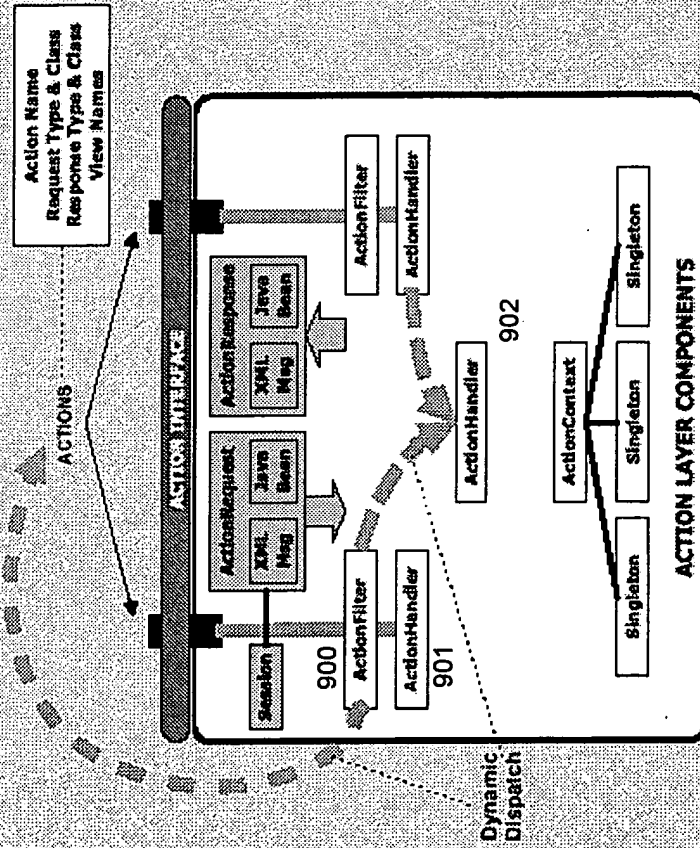


Fig. 9

# View Layer Components

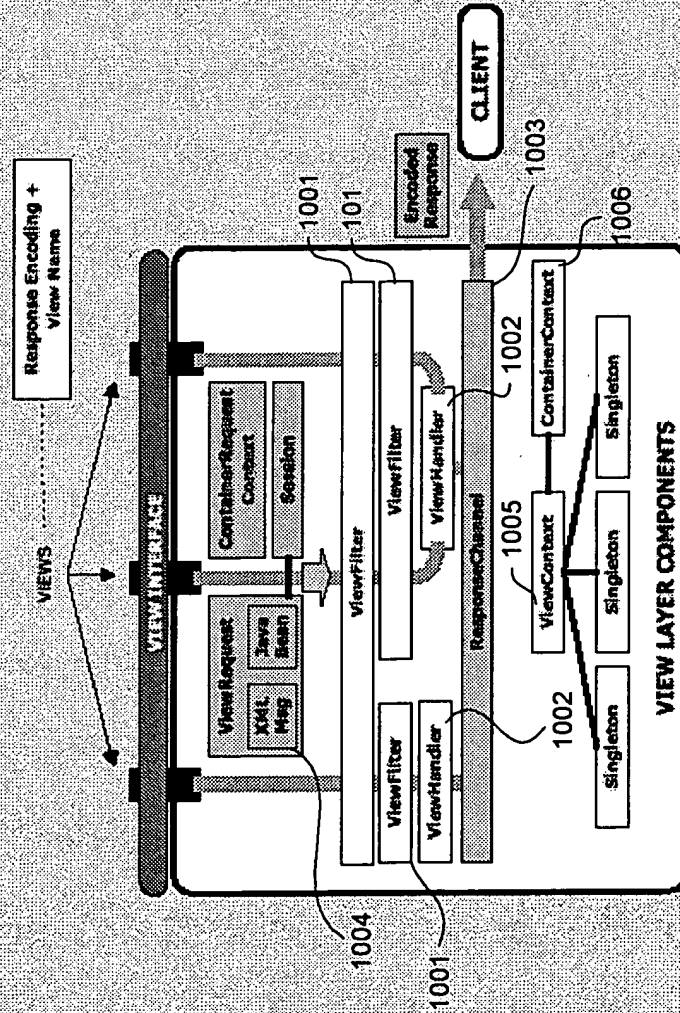


Fig. 10

# View Layer Request Sequence Overview

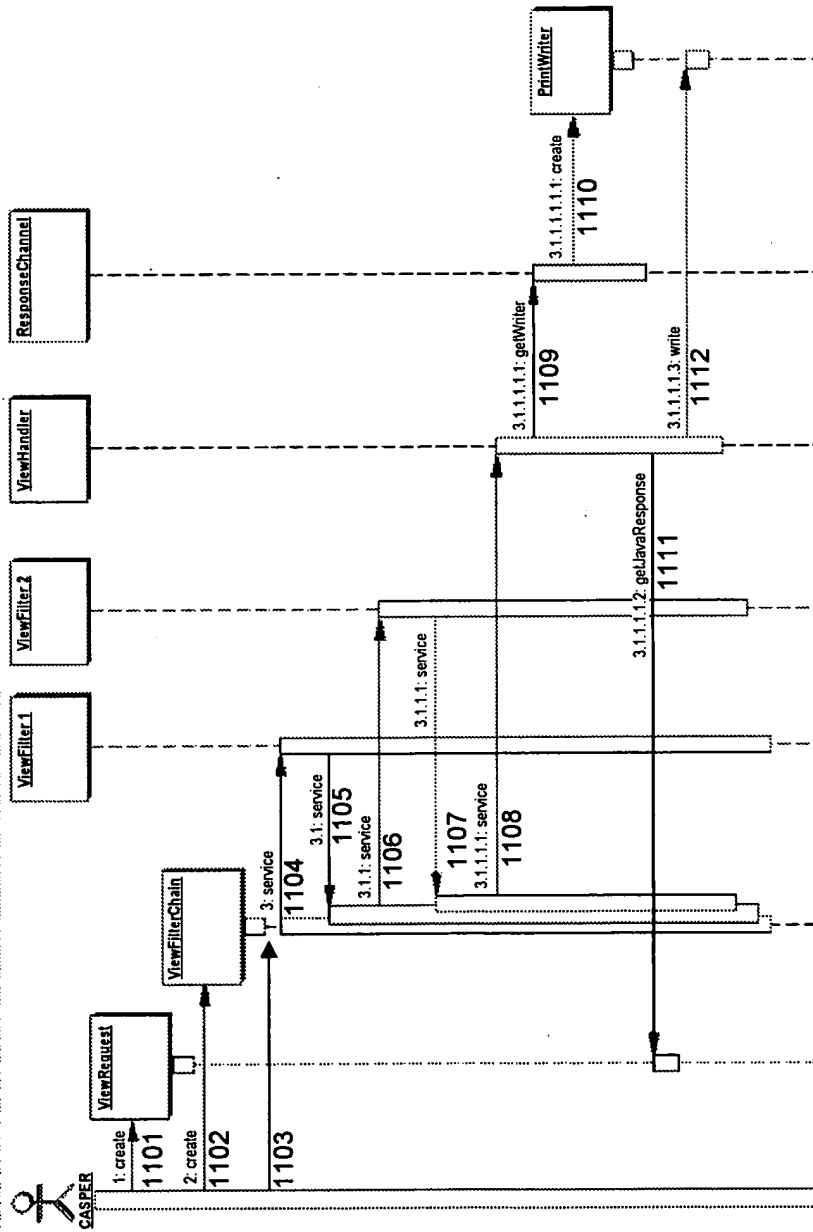


Fig. 11

# Configuration And State Architecture

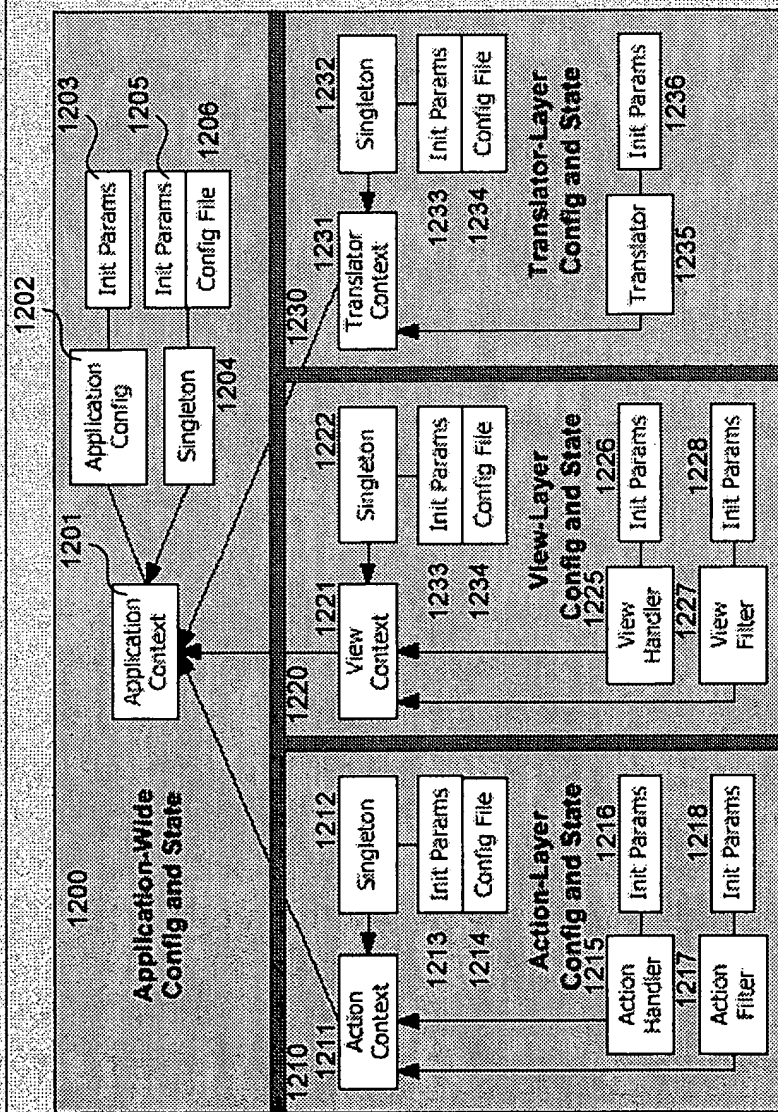
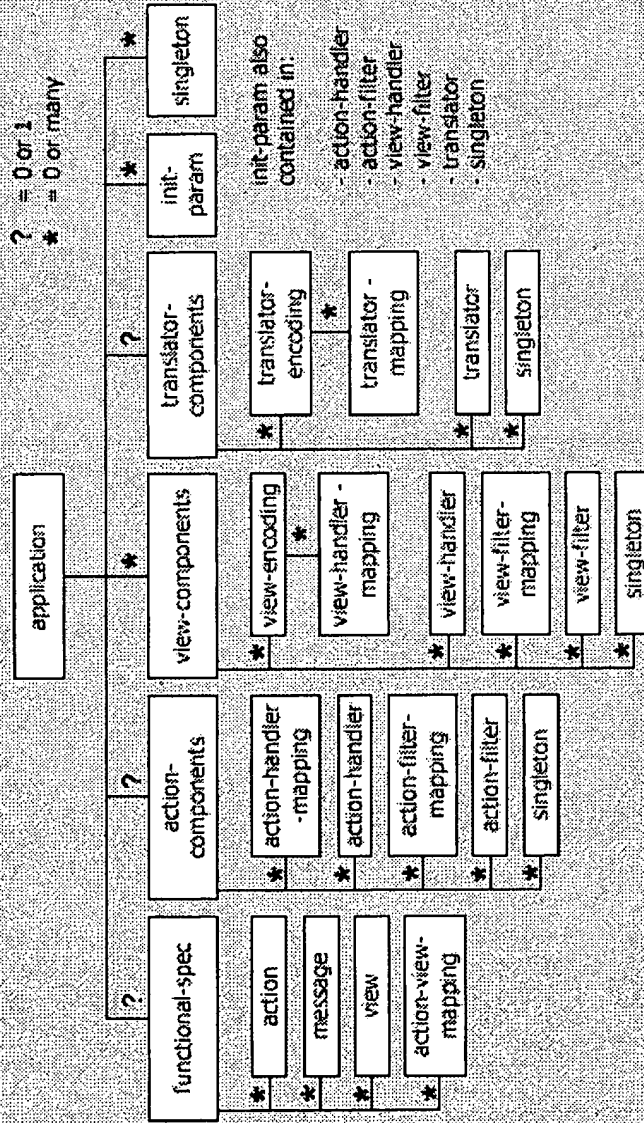


Fig. 12

# casper-application.xml structure



```

<!DOCTYPE application
PUBLIC "-//GE CASPER/DTD config casper-application-1.0/EN"
"http://casper.ge.com/dtd/config/casper-application-1.0.dtd">
    
```

Fig. 13

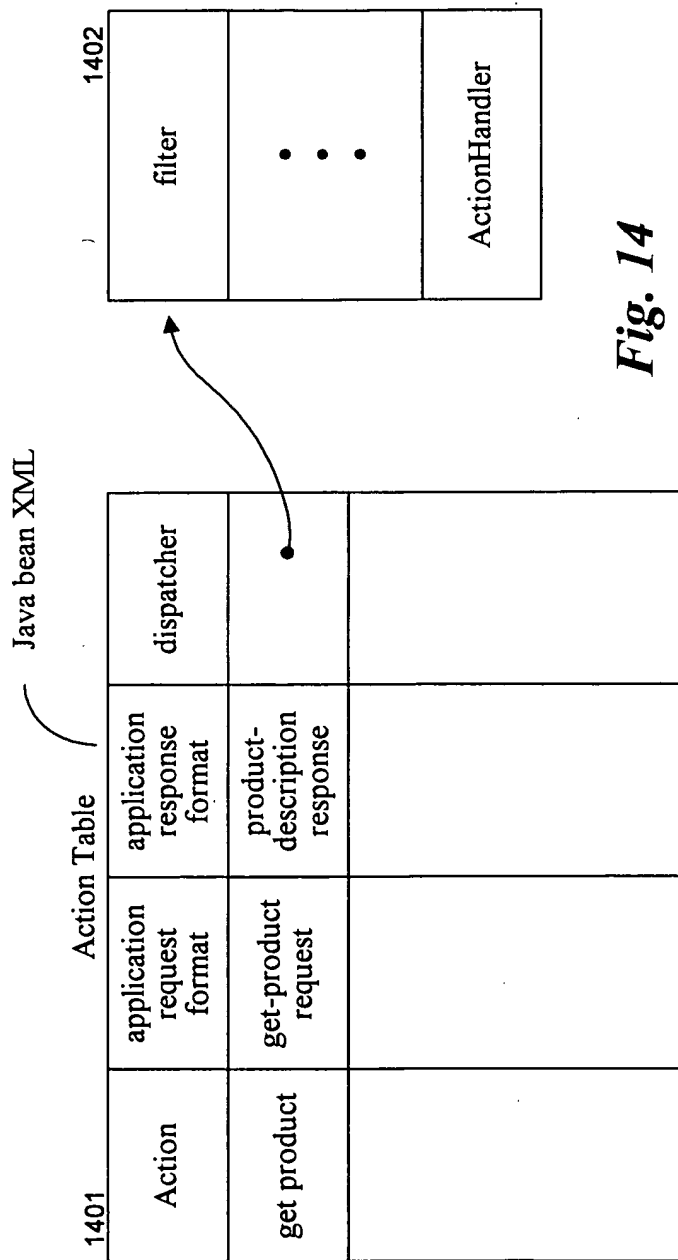


Fig. 14

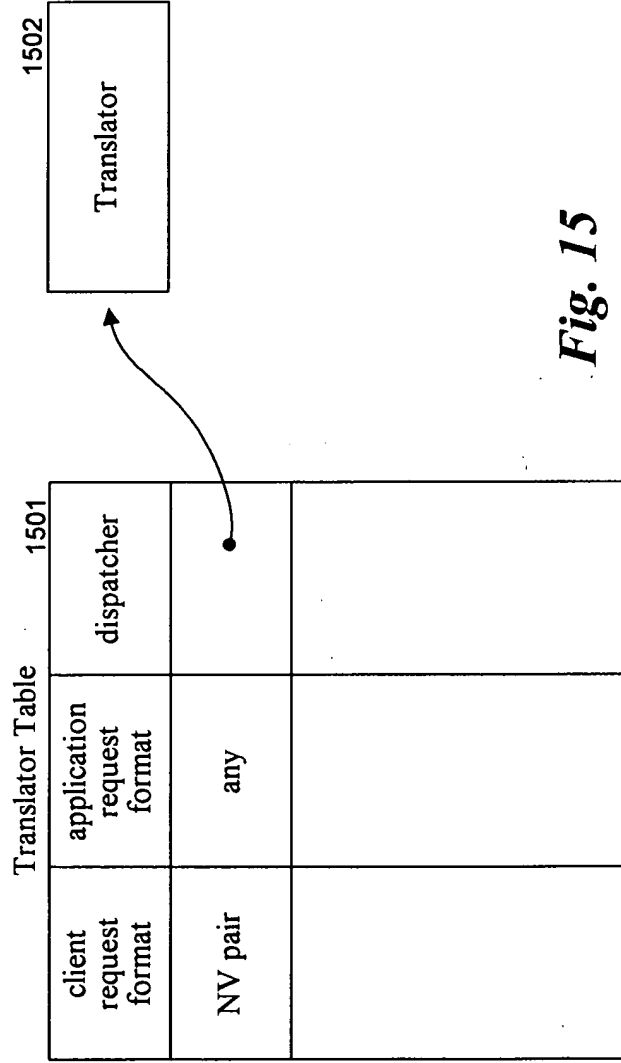


Fig. 15



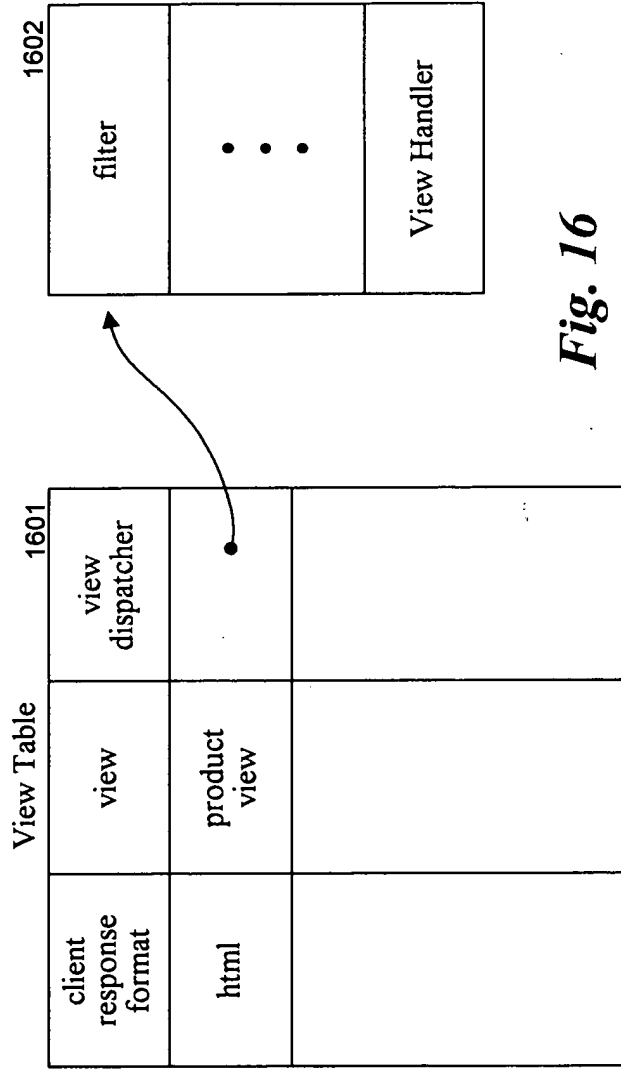


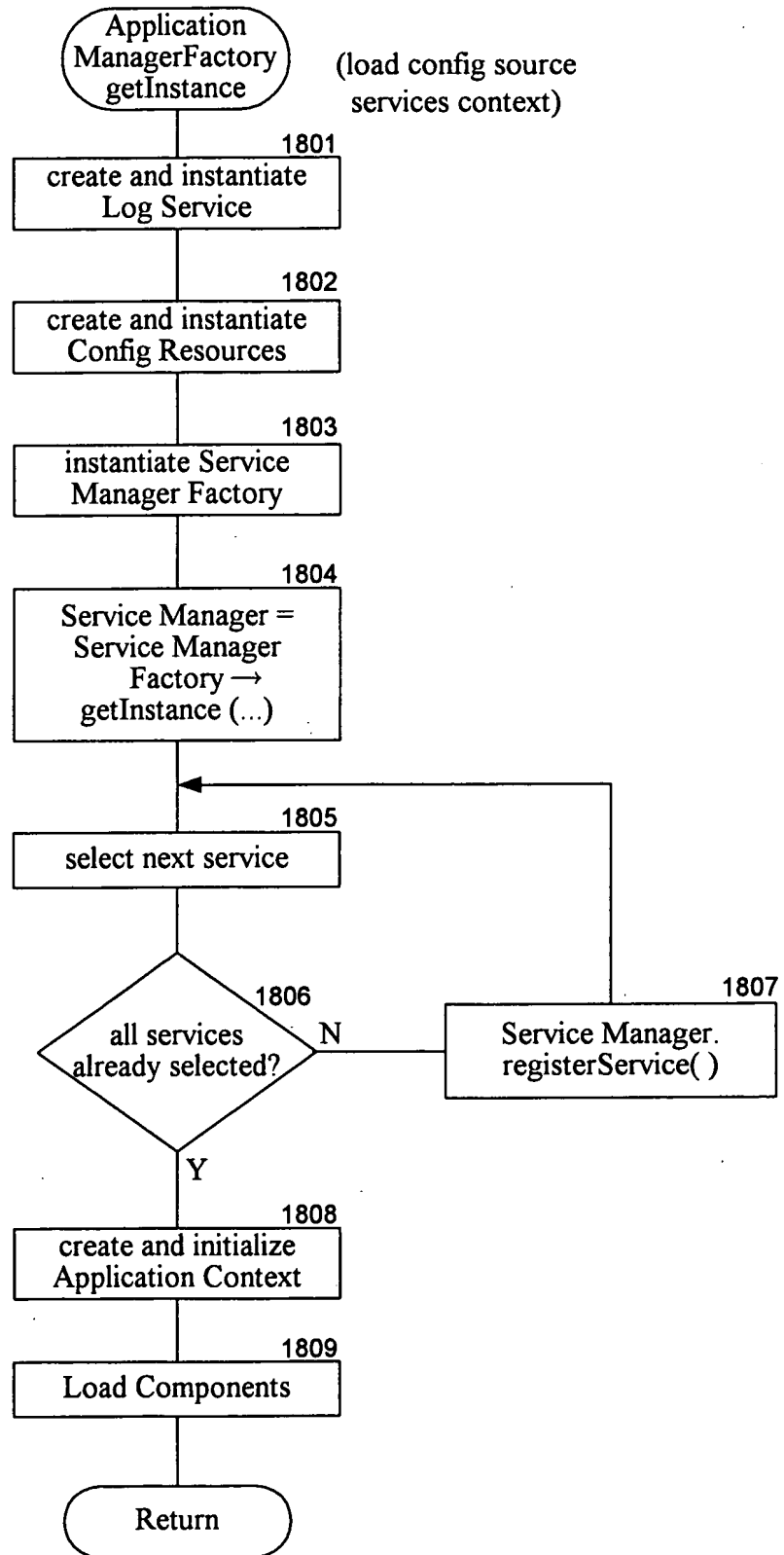
Fig. 16

```

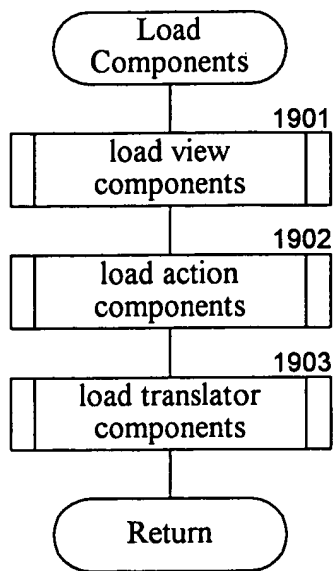
graph TD
    Start([Container Adapter::Init]) -- 1701 --> Step1[create and initialize Resource Source]
    Step1 -- 1702 --> Step2[create and initialize Service Descriptor]
    Step2 -- 1703 --> Step3[create and initialize container context]
    Step3 -- 1704 --> Step4[instantiate Application Manager Factory]
    Step4 -- 1705 --> Step5["Application Manager = Application Manager Factory → getInstance (...)"]
    Step5 --> End([Done])

```

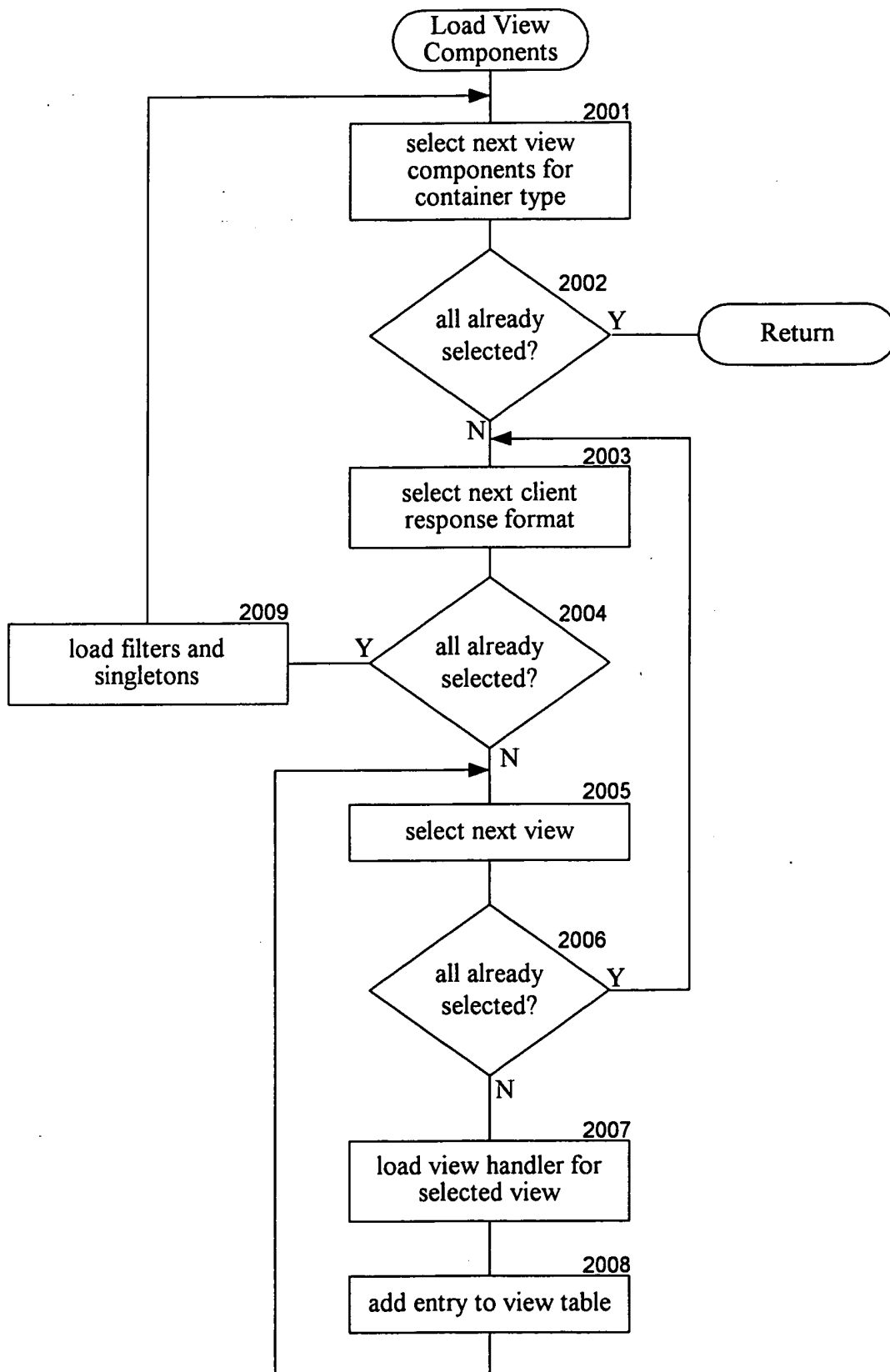
**Fig. 17**



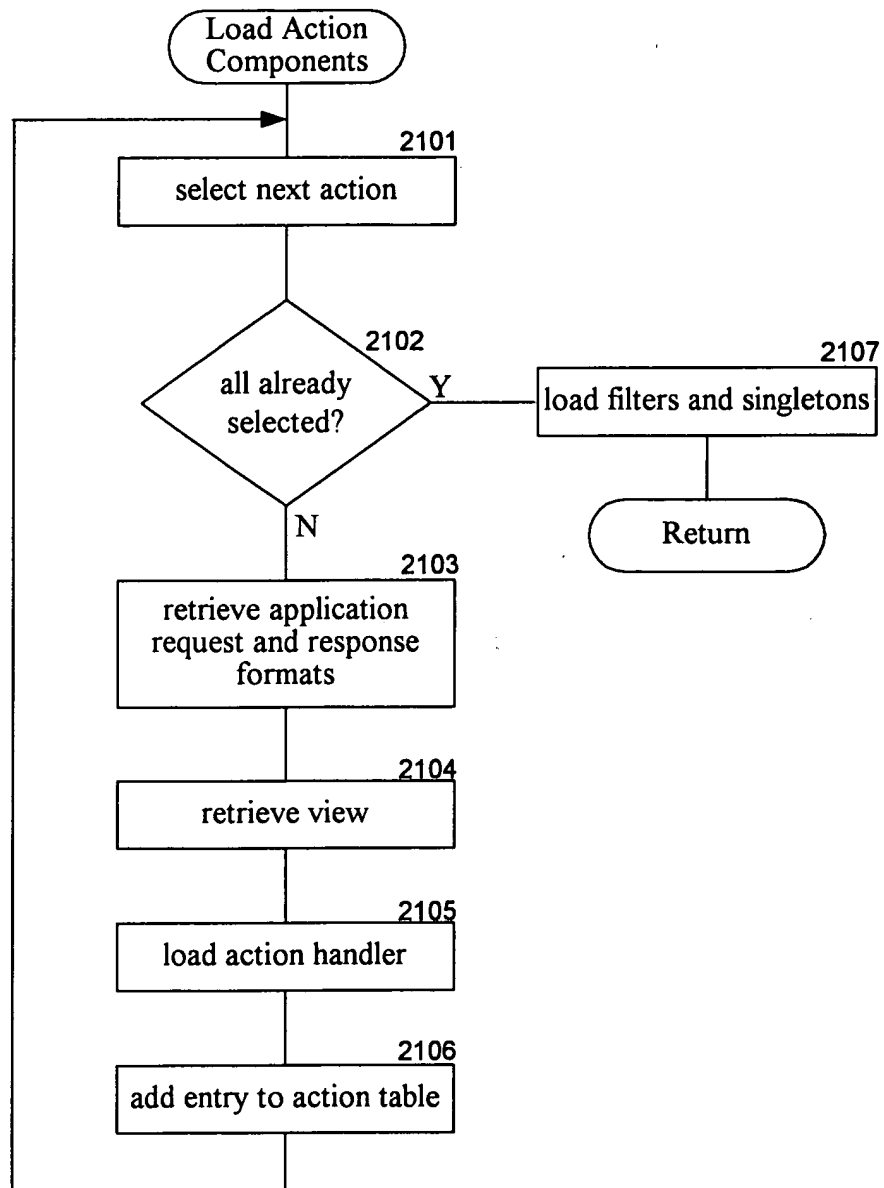
**Fig. 18**



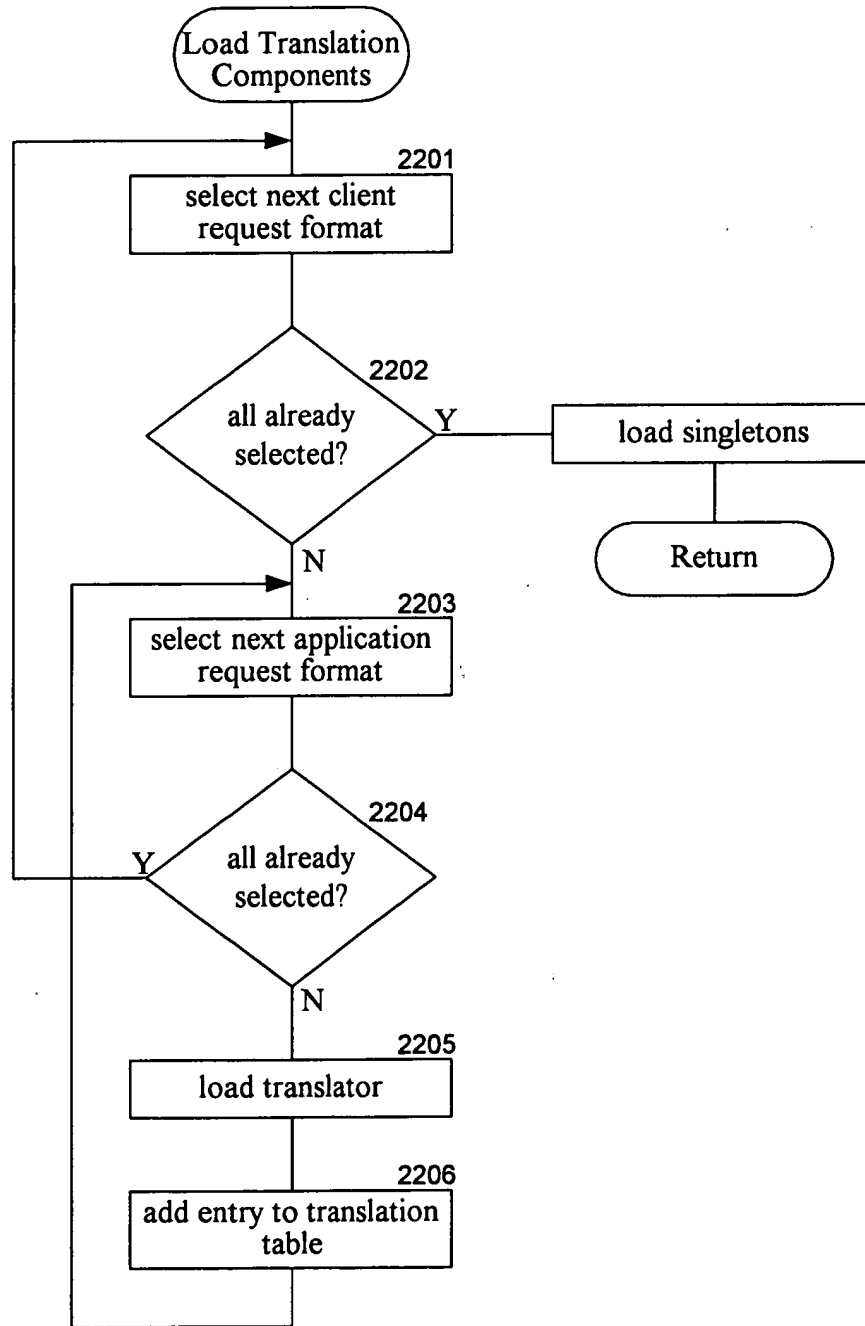
***Fig. 19***



**Fig. 20**



**Fig. 21**



**Fig. 22**



Application  
Manager.Service

(Container Service Order)

2301

Msg.encoding  
CSO:getRequest  
Properties().  
getMessageEncoding()

2302

2302

action = CSO.  
getServiceAddress().  
getOperation()

2303

identify Translator

2304

instantiate and initialize  
Action Request

2305

identify Action  
Dispatcher

2306

dispatch (Action  
Request, Action  
Response)

2307

instantiate and initialize  
View Request

2308

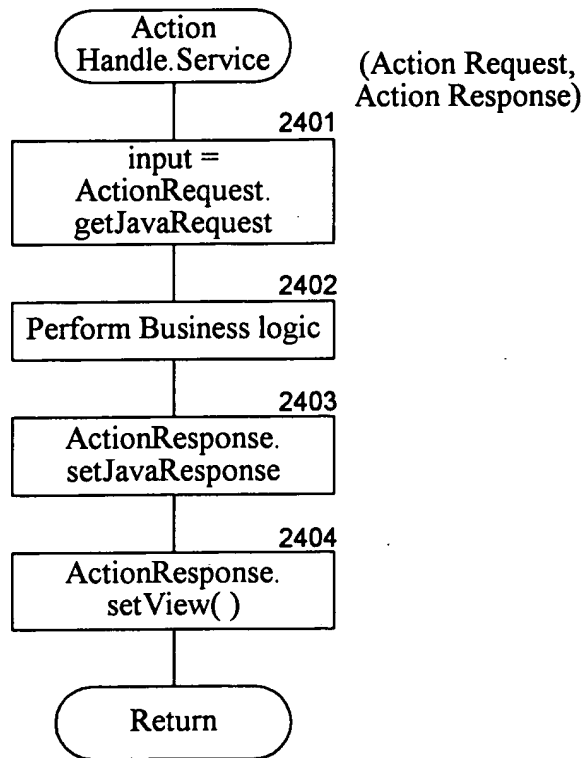
identify View  
Dispatcher

2309

dispatch (view Request  
and Response Channel  
Container Request  
Context

Done

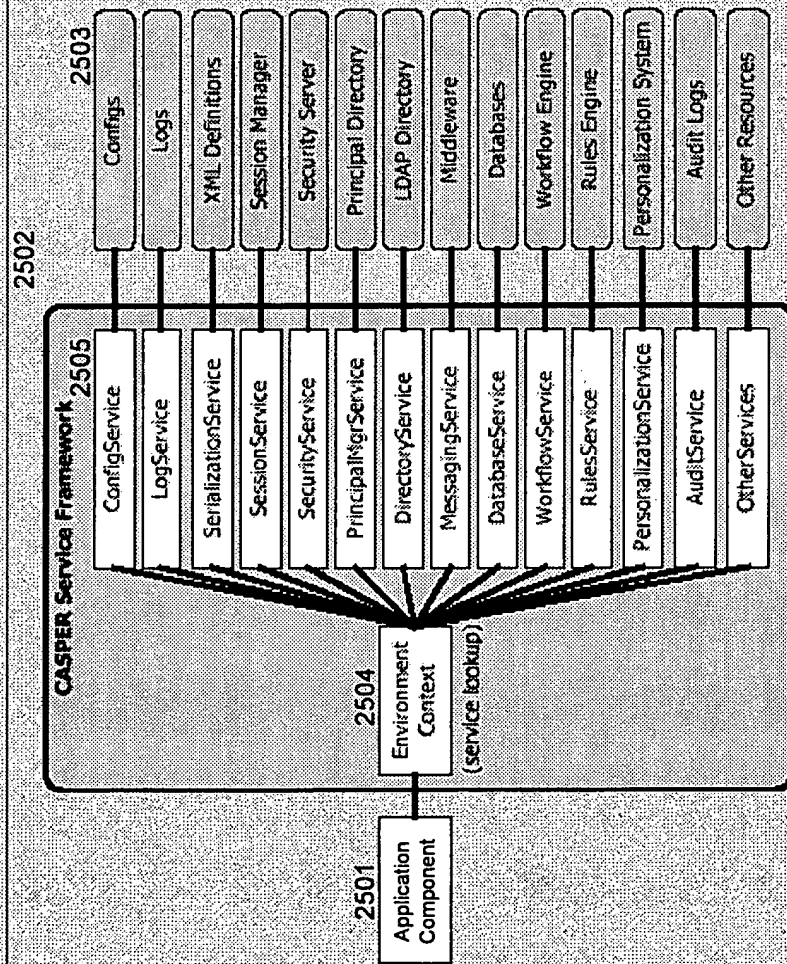
**Fig. 23**



***Fig. 24***

FIG. 24

## Service Framework Overview



**Fig. 25**



# Service Framework Configuration

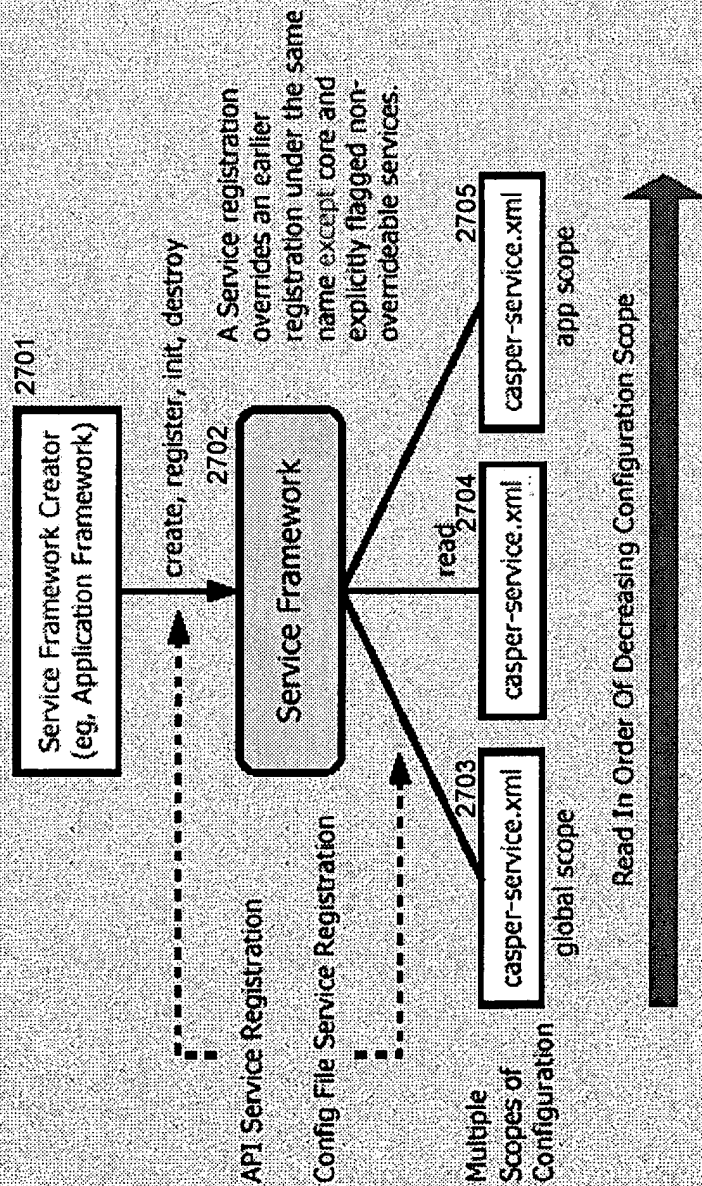


Fig. 27

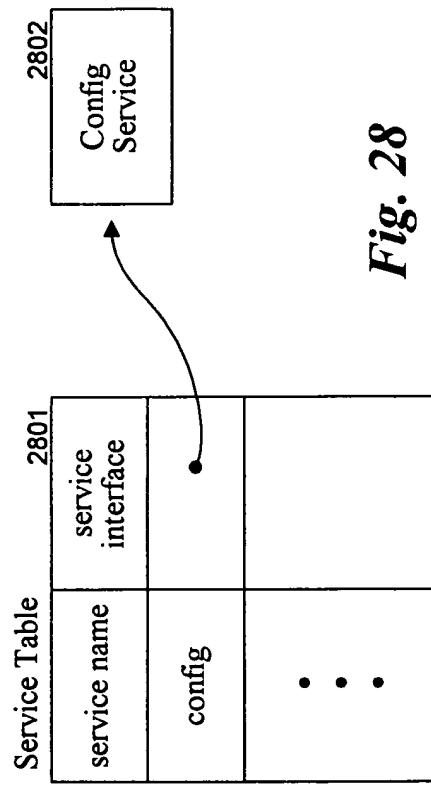
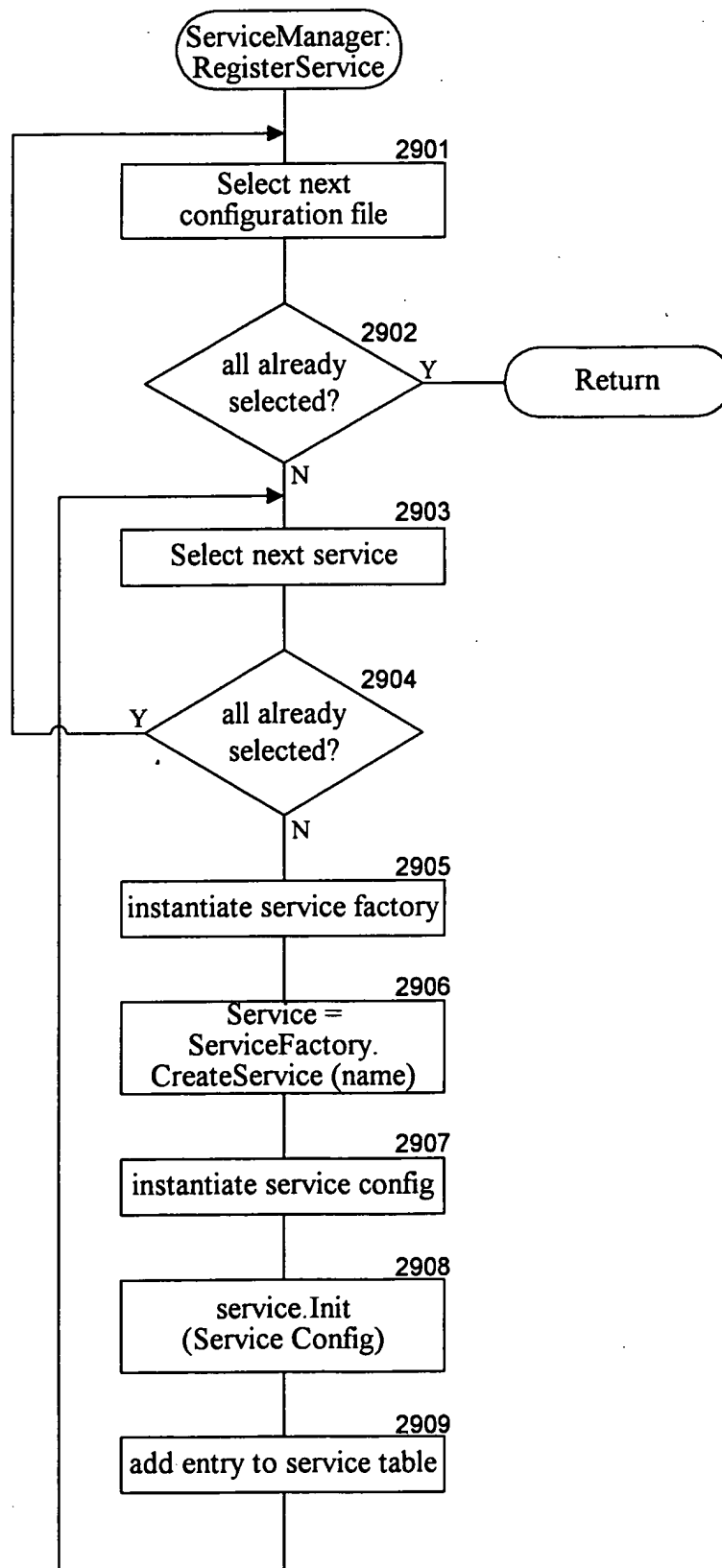
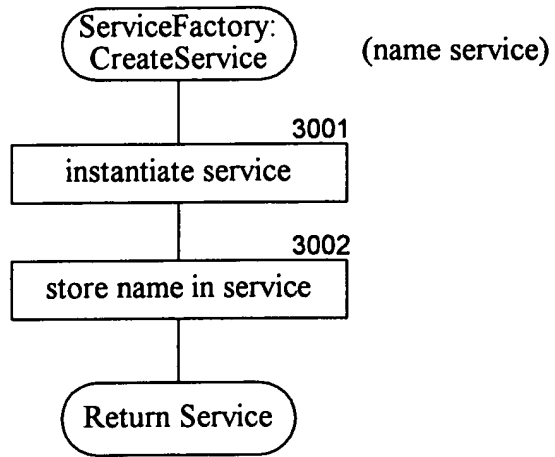


Fig. 28



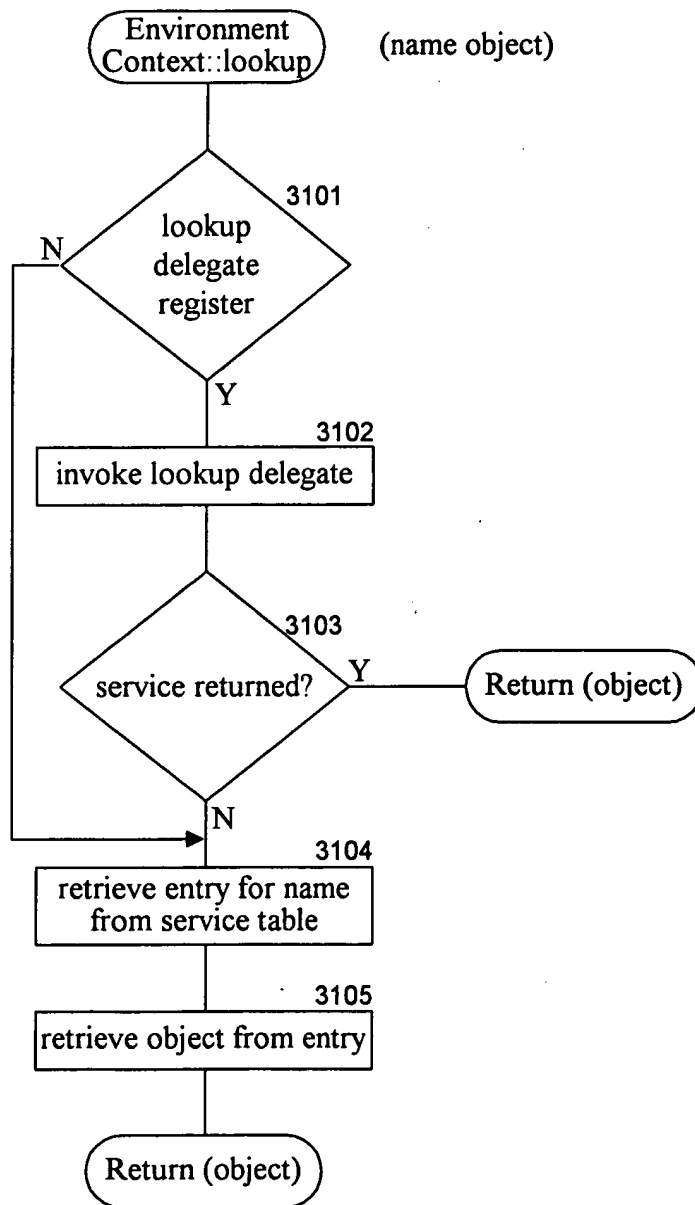
**Fig. 29**





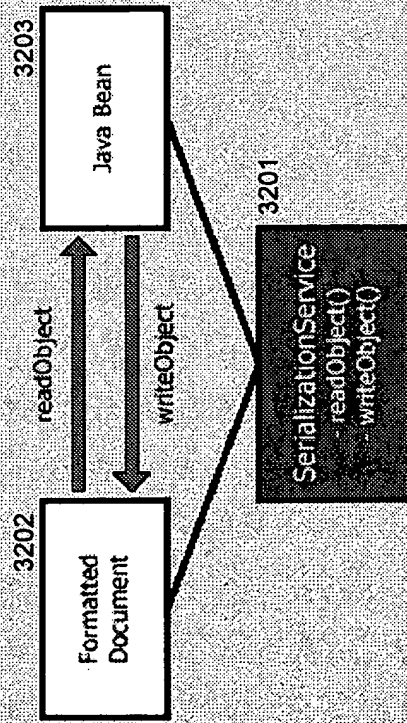
***Fig. 30***

FIG. 30



**Fig. 31**

## Serialization Service



A **SerializationService** is responsible for transforming and validating formatted documents to and from JavaBean objects

*Fig. 32*

# Configuration Definition with SFO SML Tools

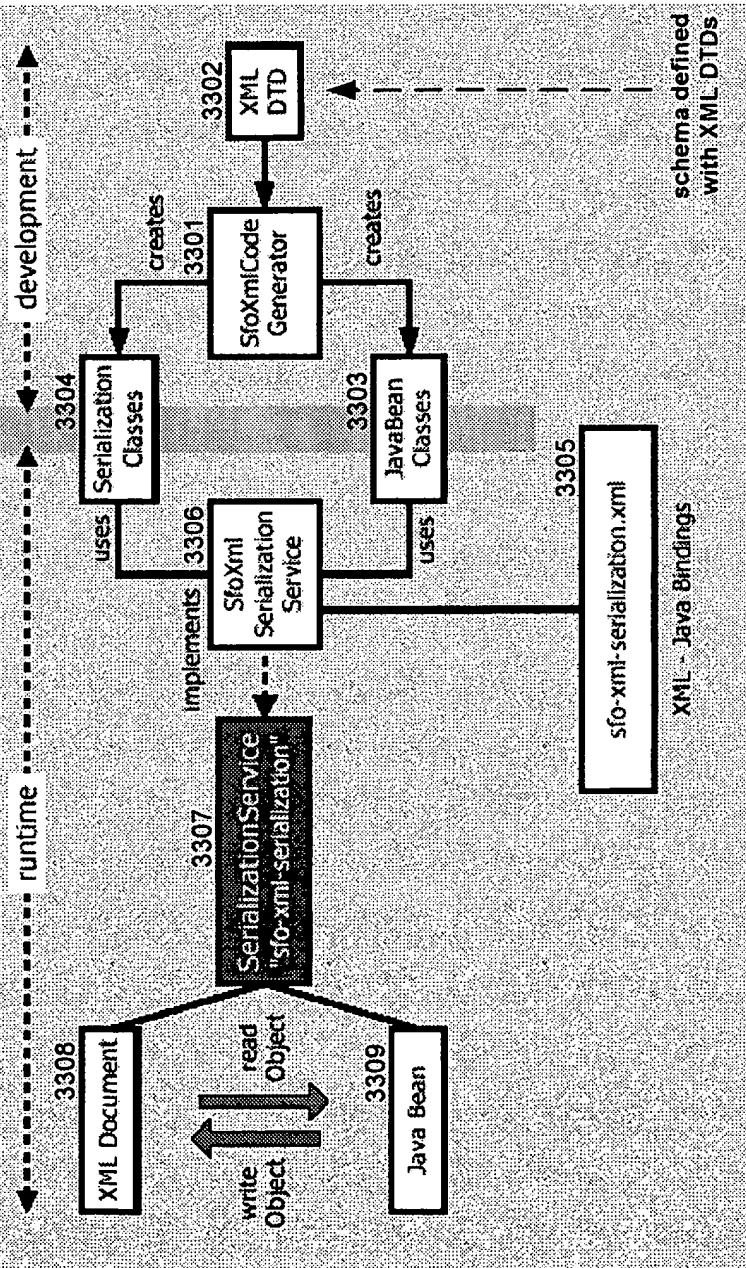
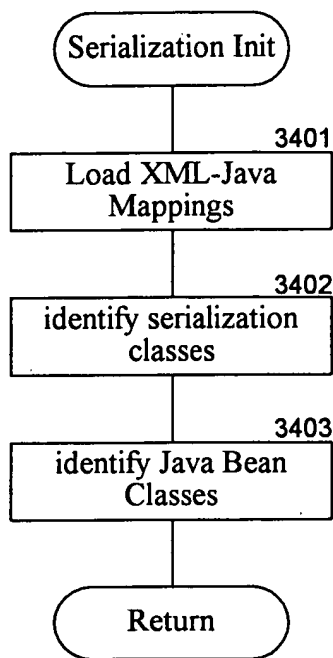
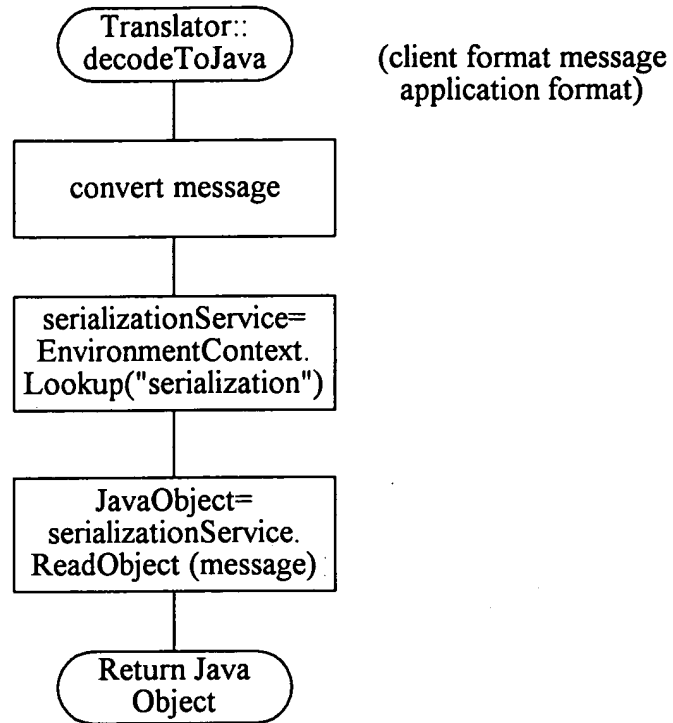


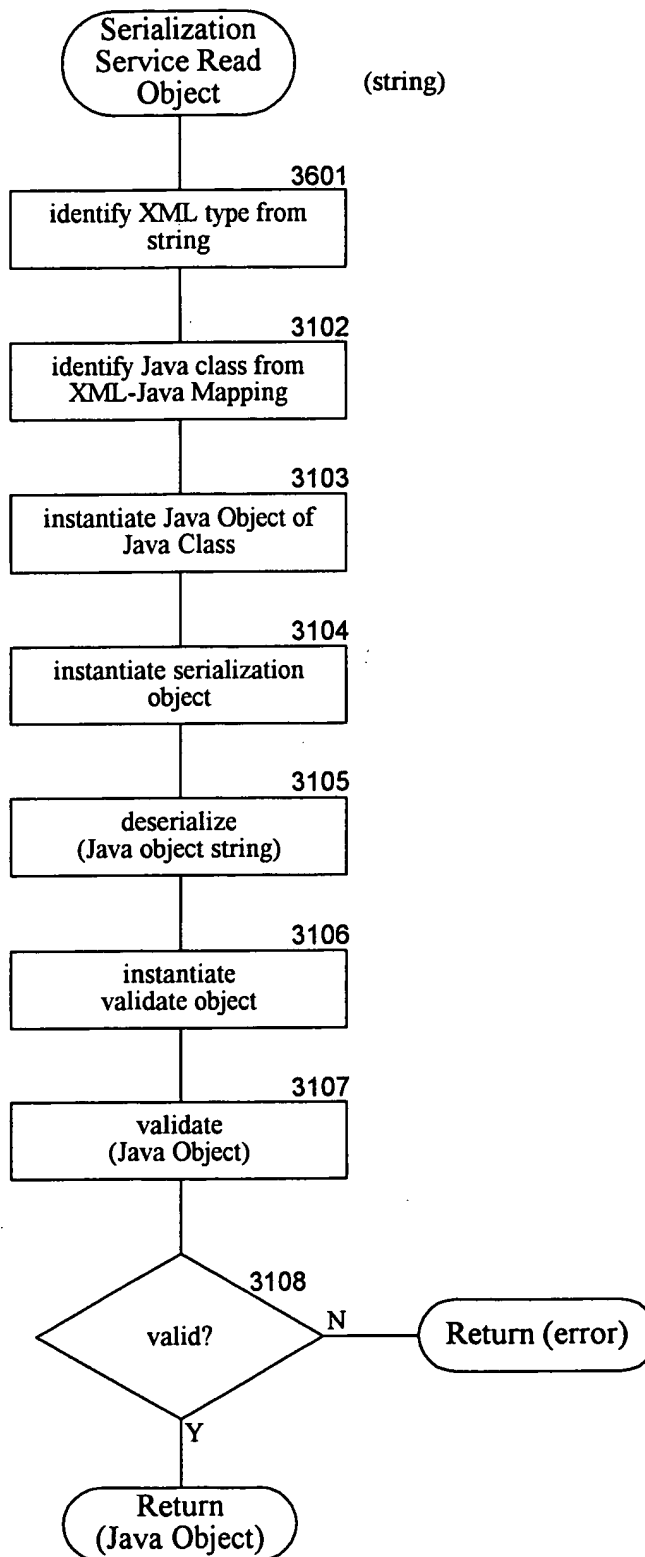
Fig. 33



***Fig. 34***



***Fig. 35***



**Fig. 36**



# Configuration Service

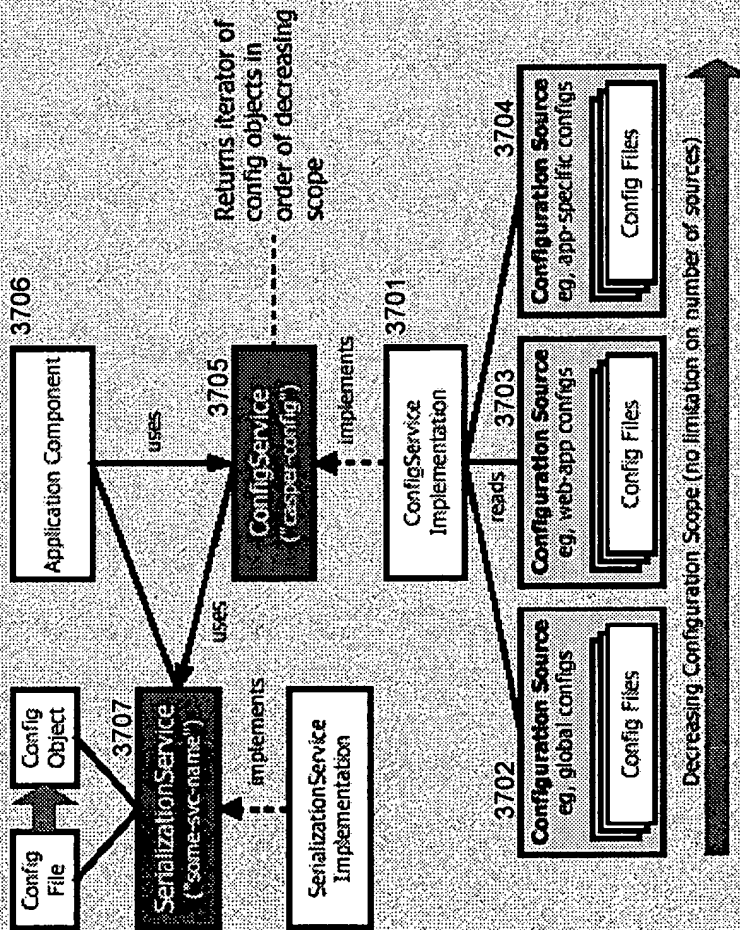
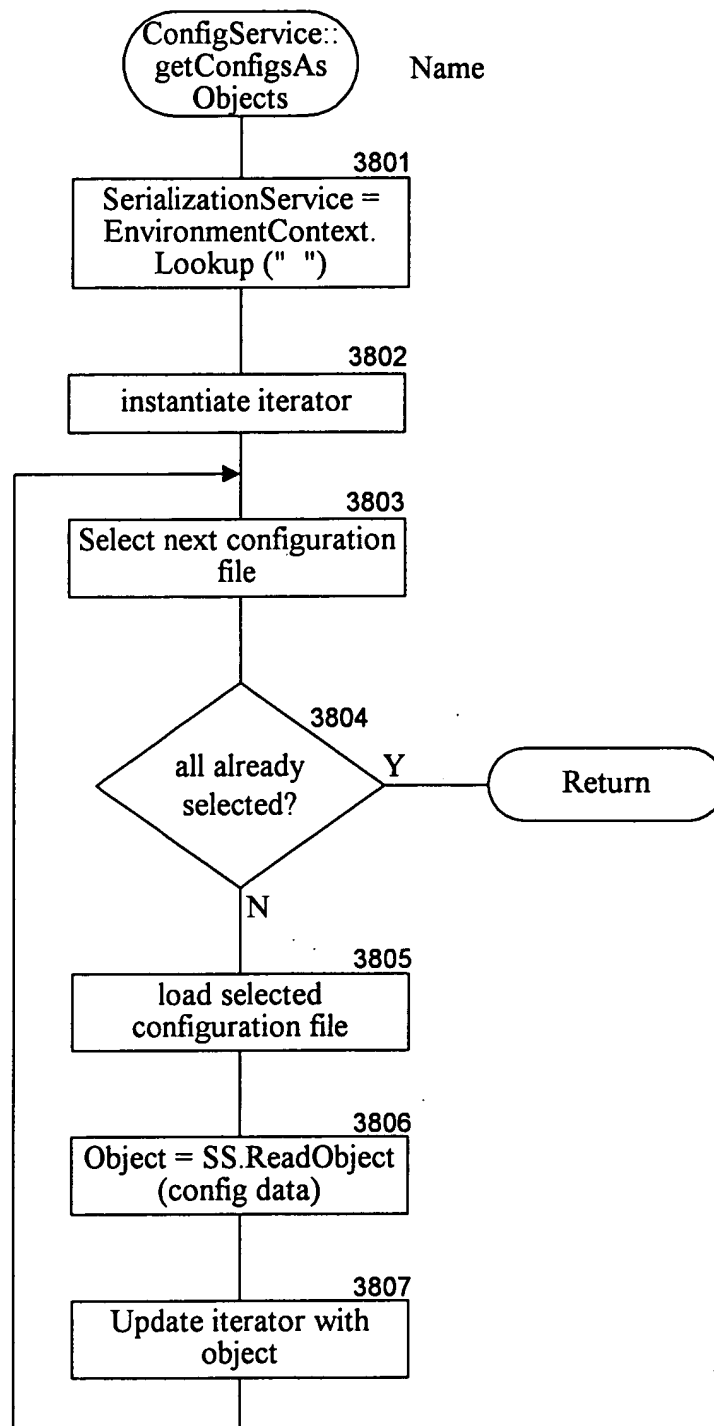
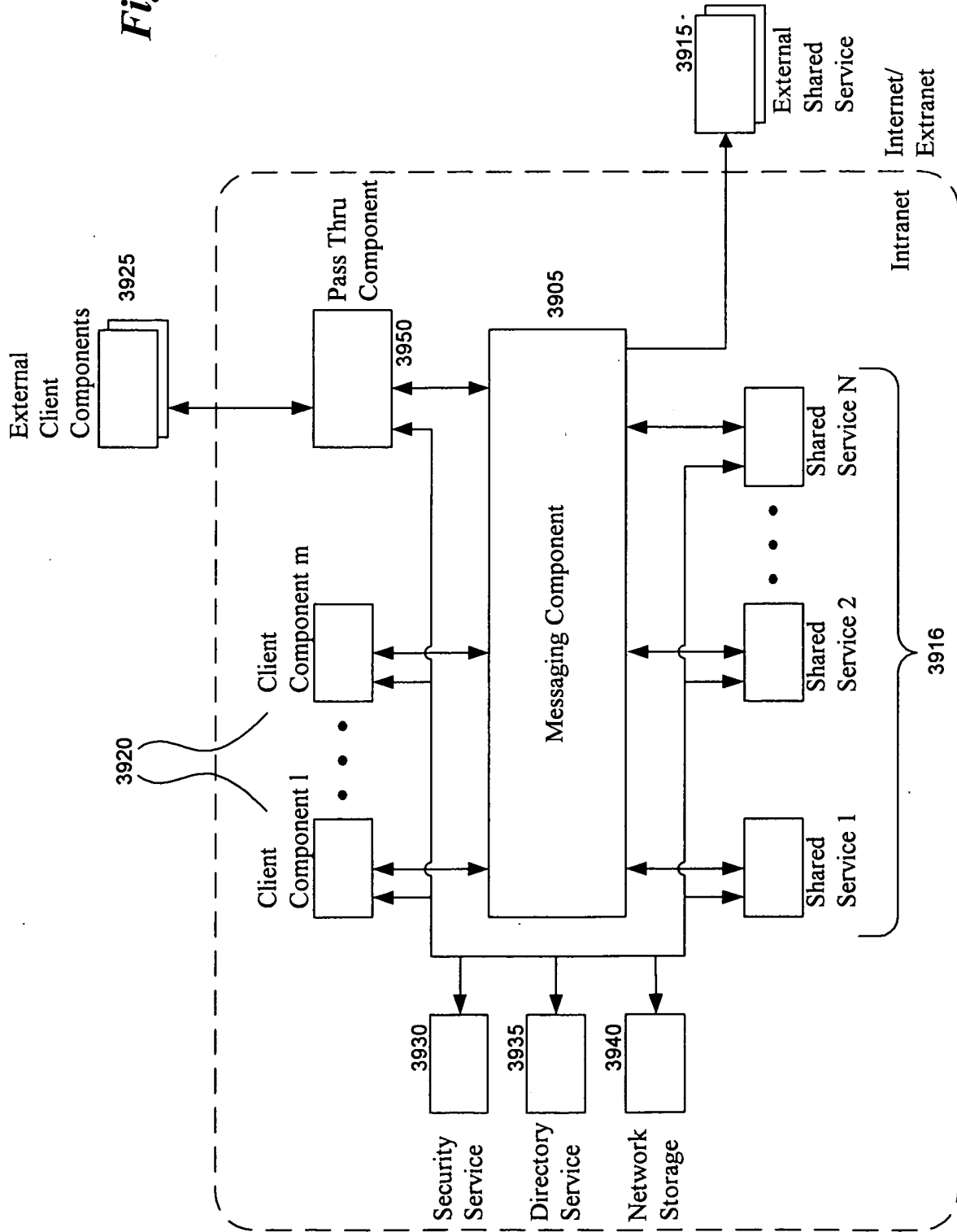


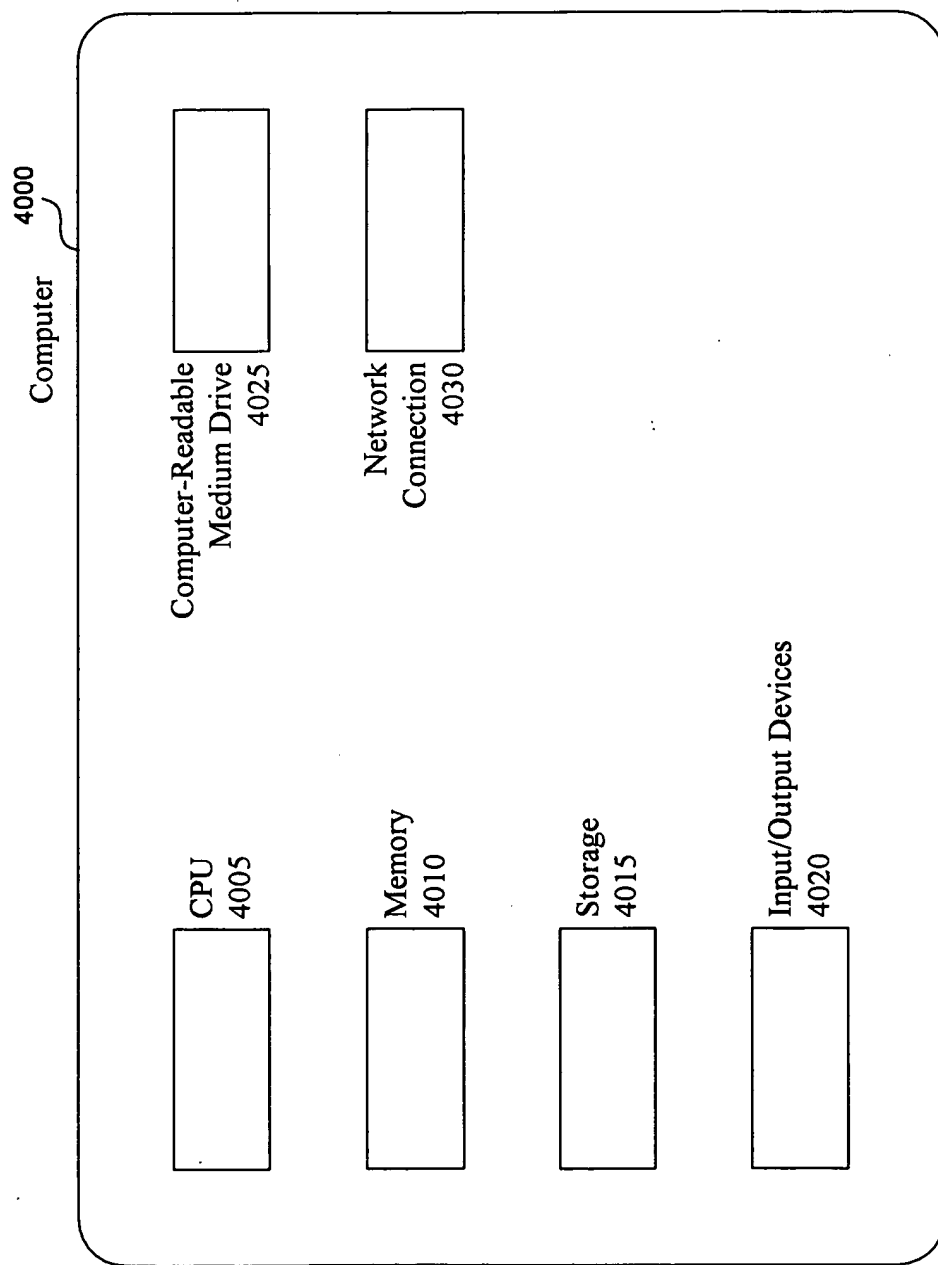
Fig. 37



**Fig. 38**

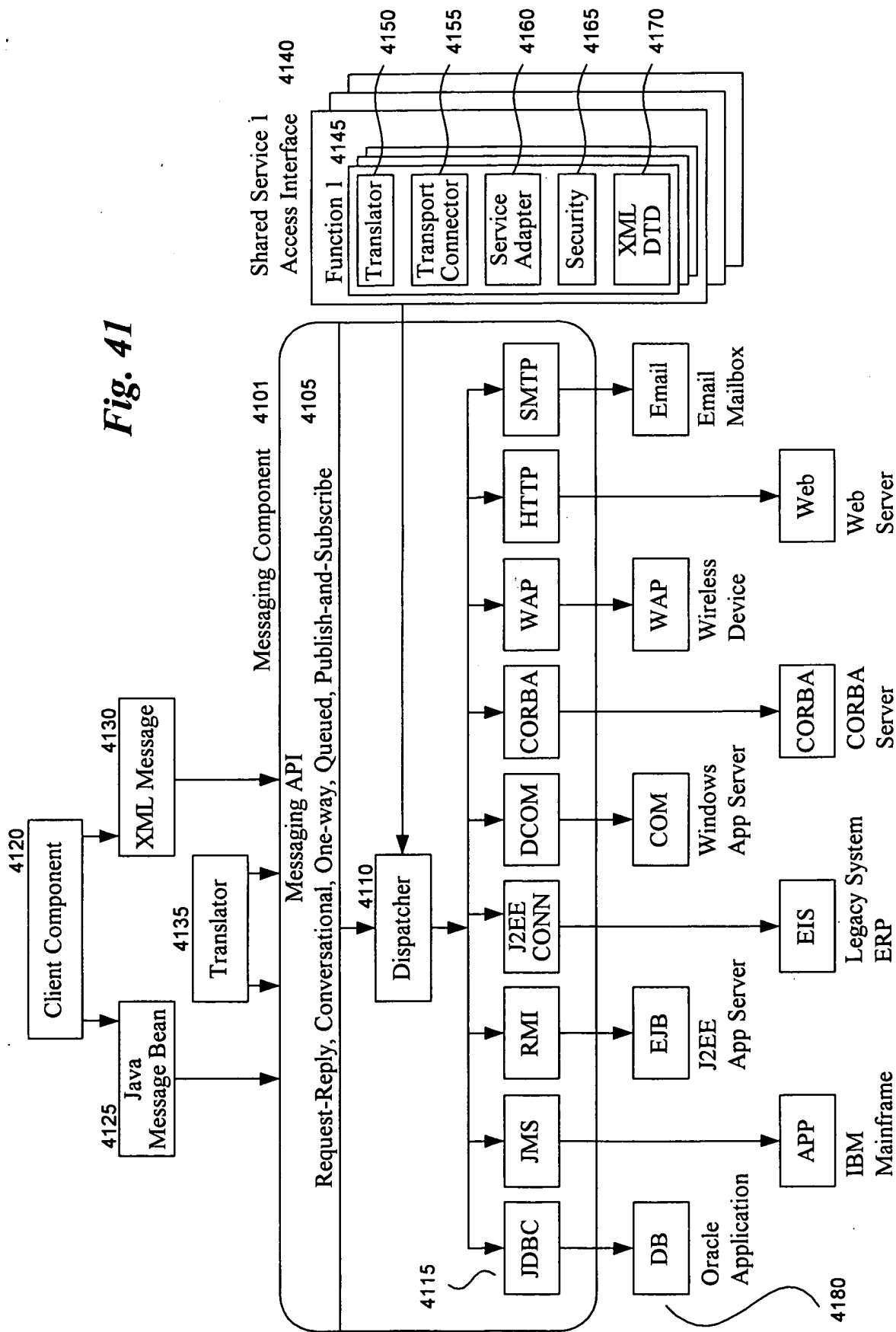
Fig. 39

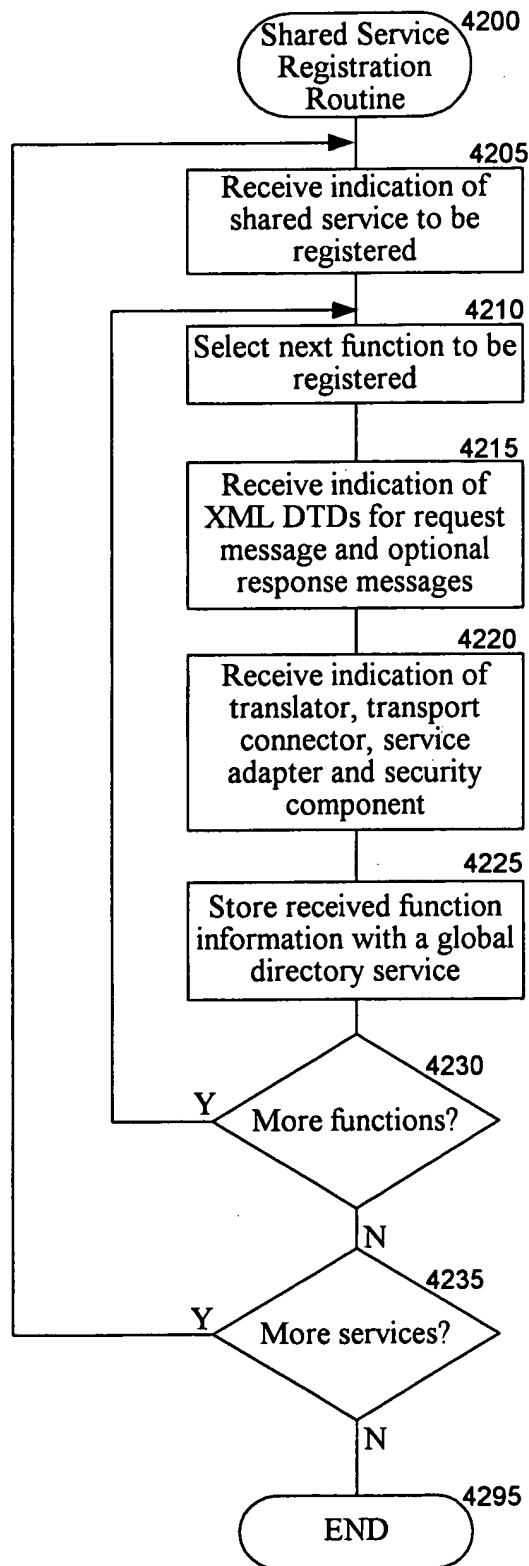




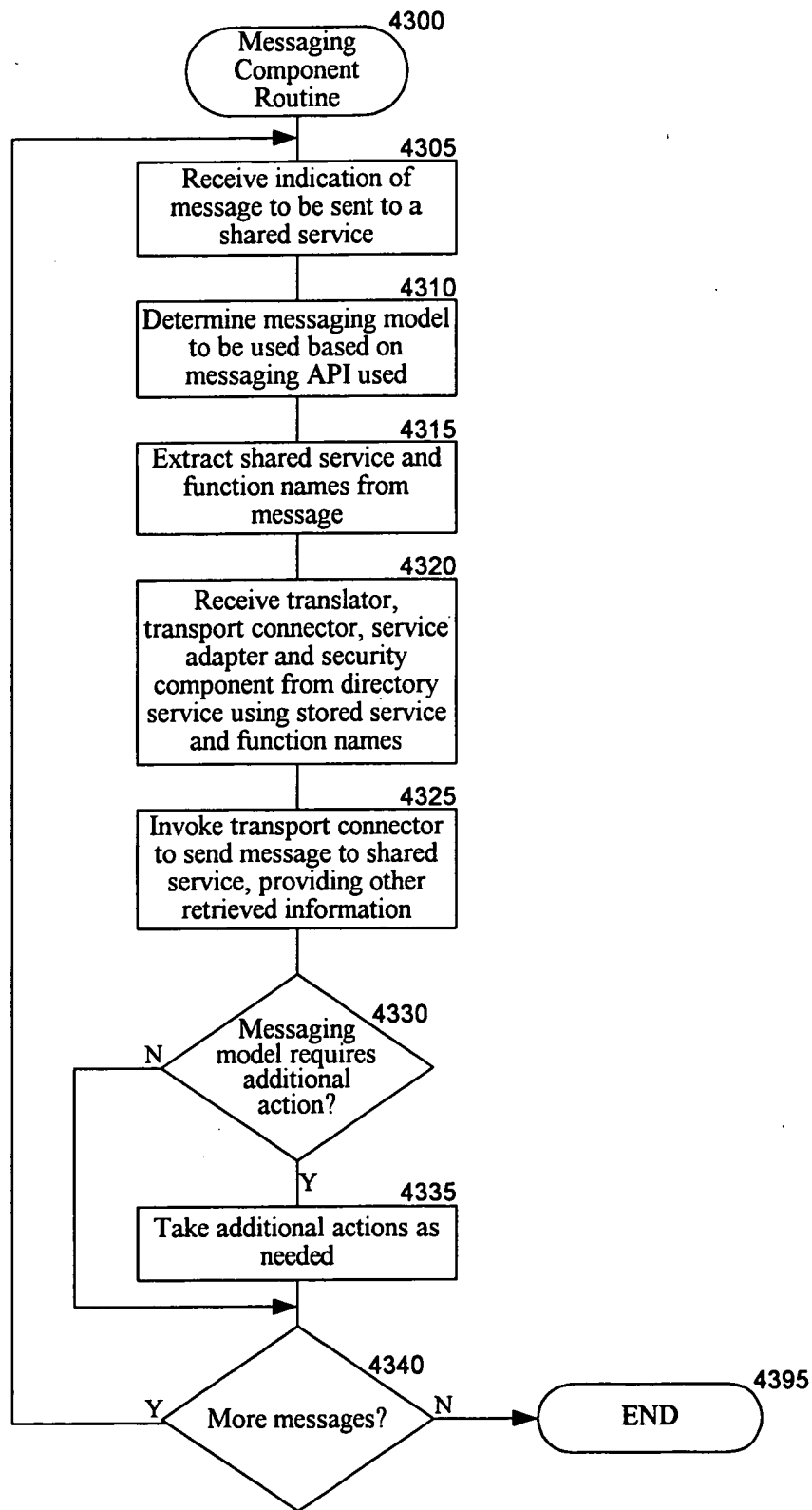
**Fig. 40**

**Fig. 41**

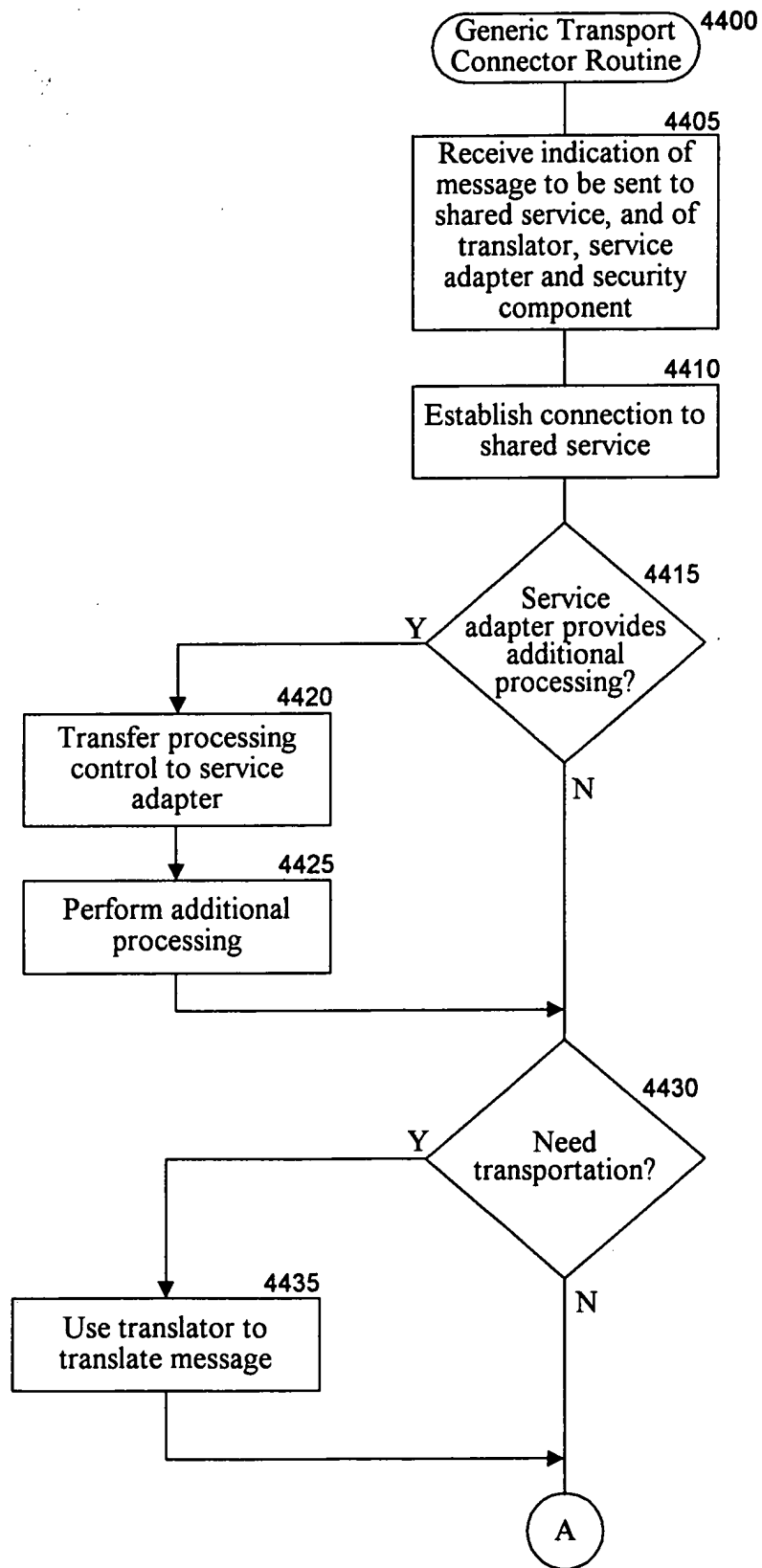




**Fig. 42**

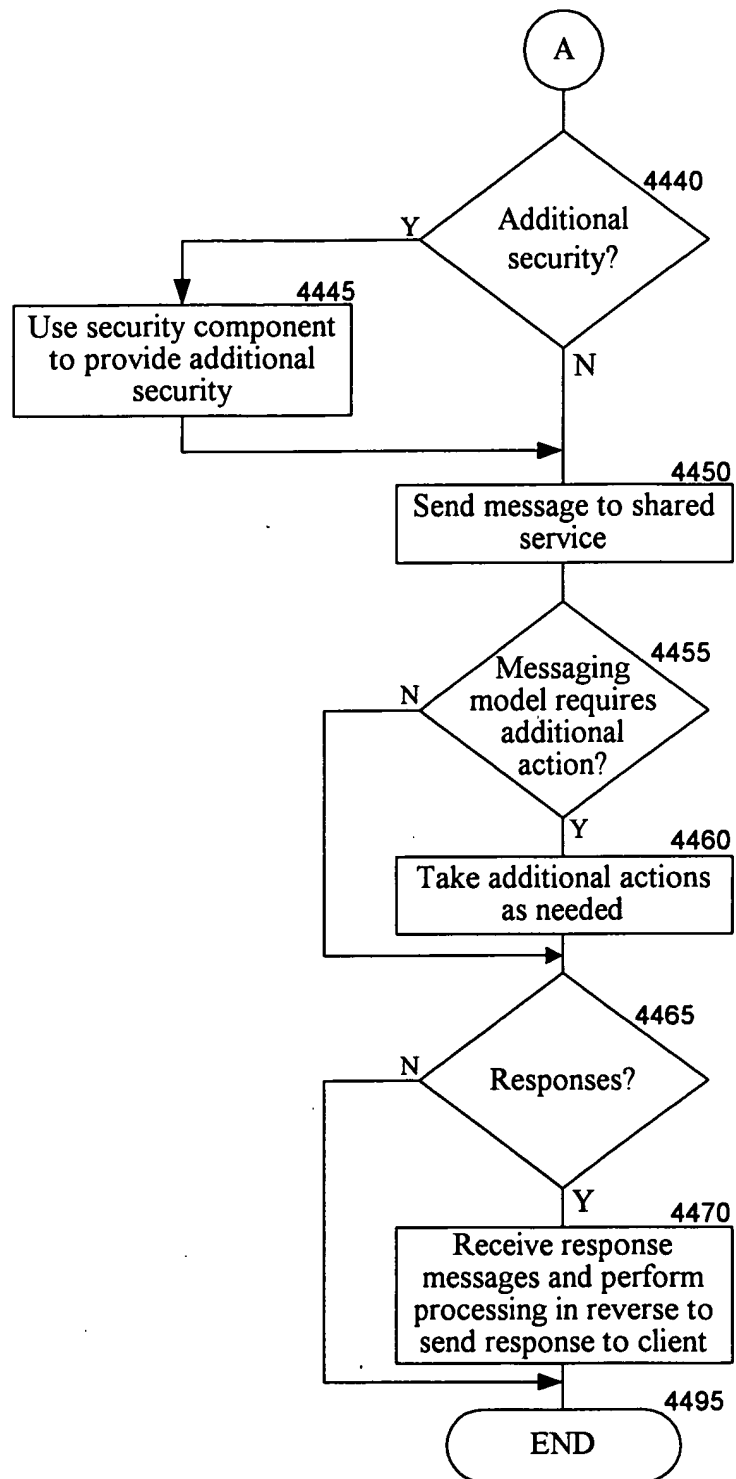


**Fig. 43**



**Fig. 44A**

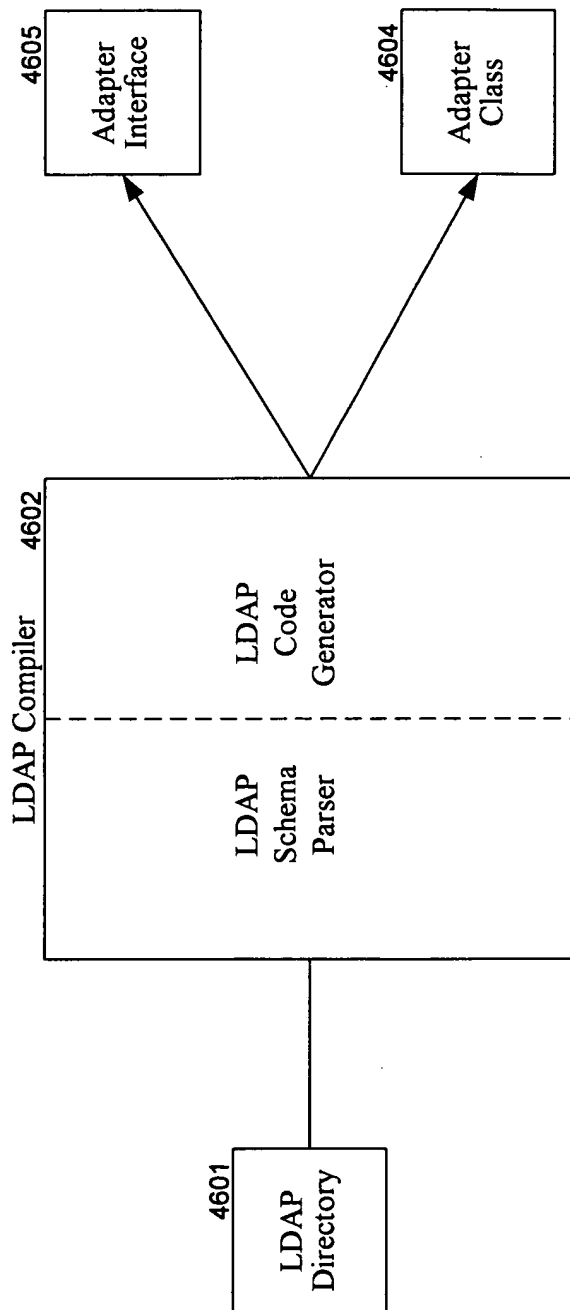




**Fig. 44B**







**Fig. 46B**

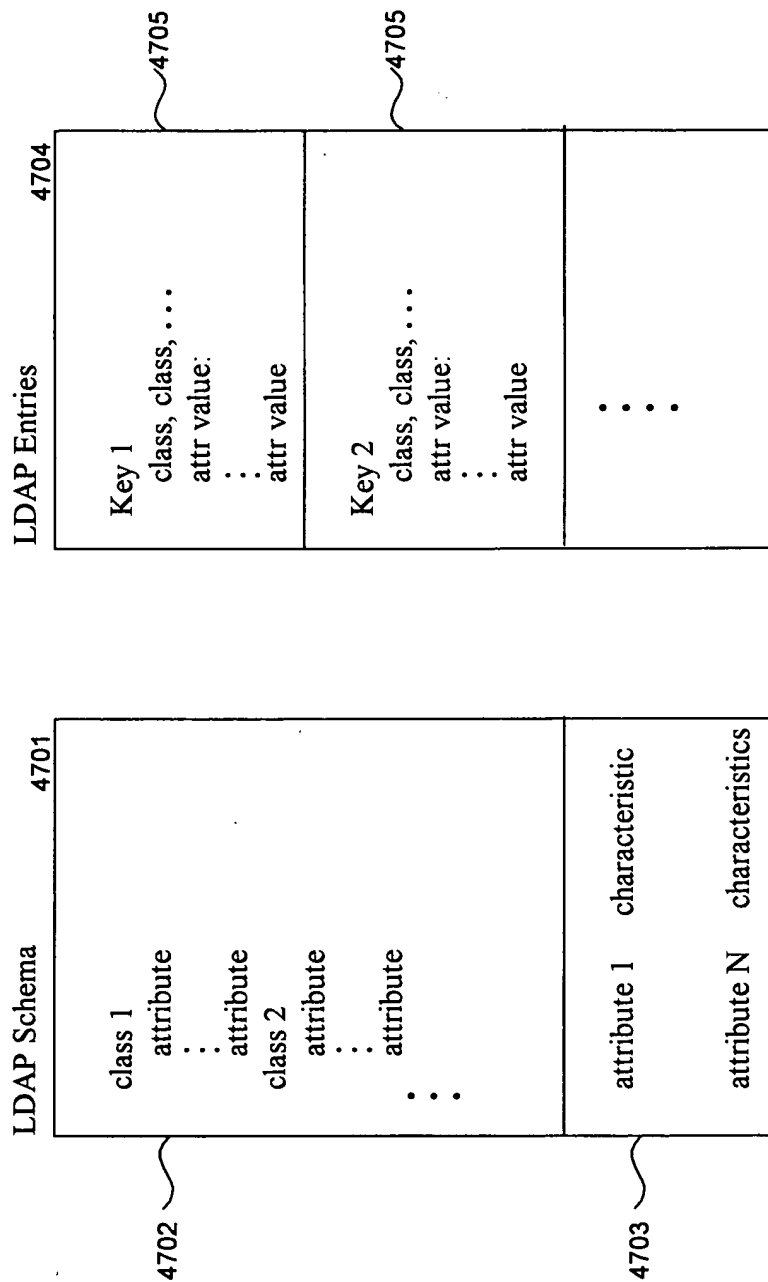
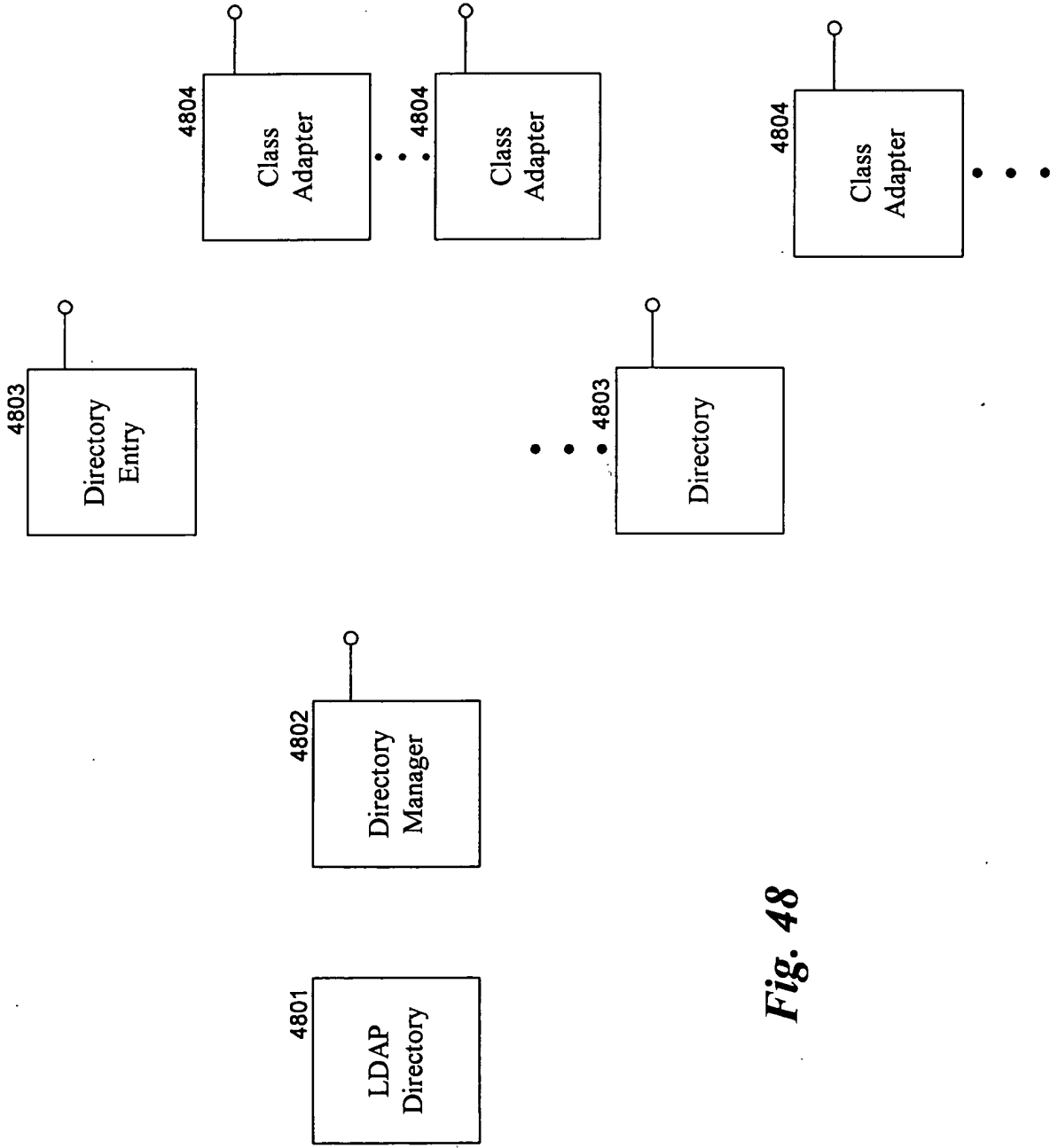
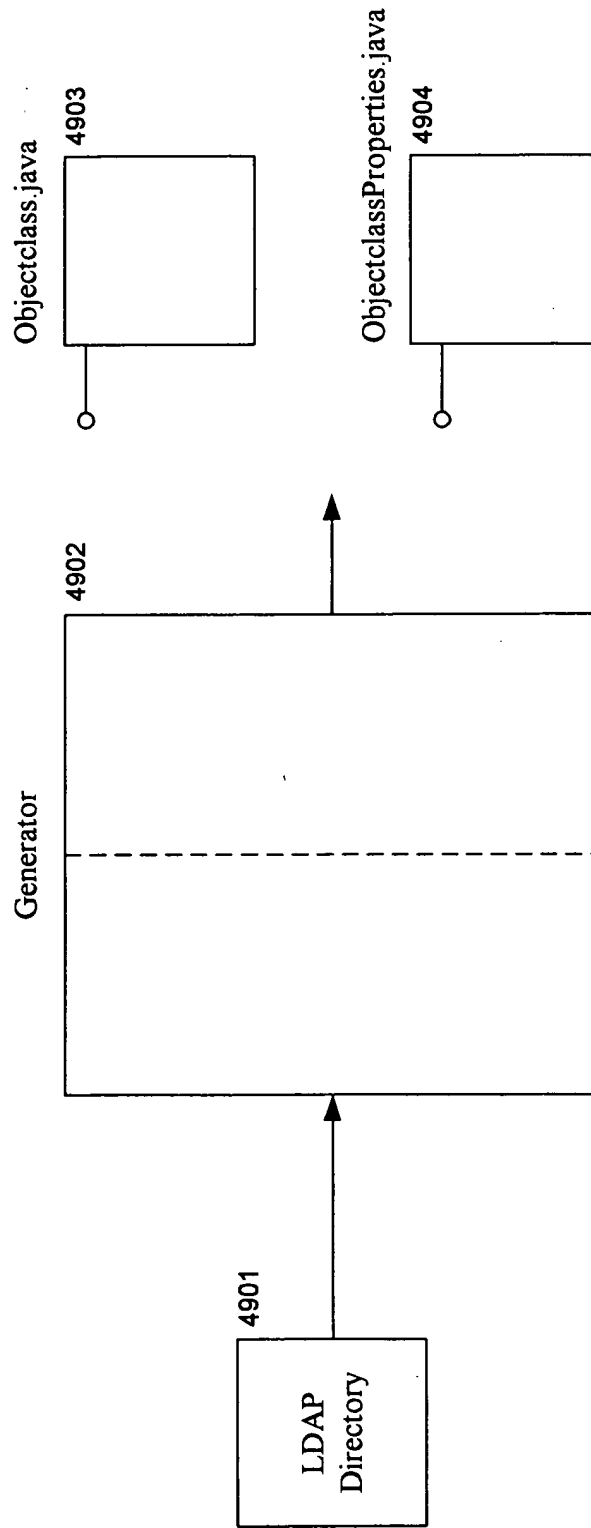


Fig. 47



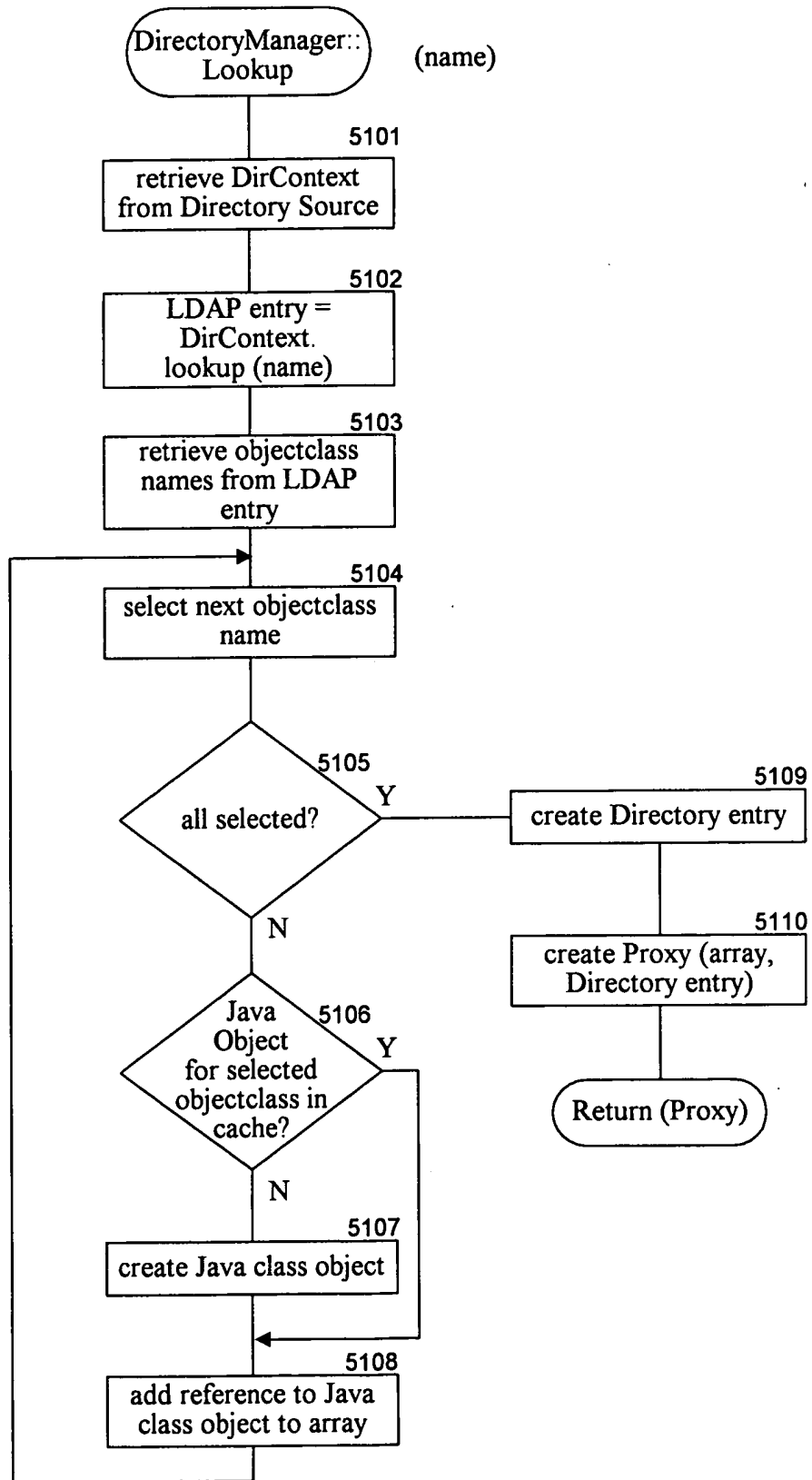
**Fig. 48**



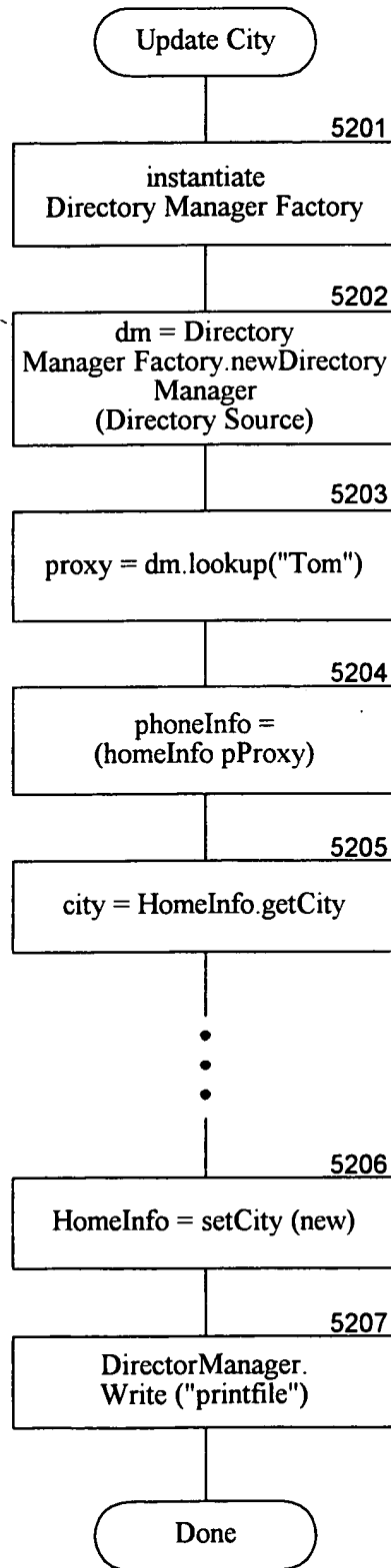
*Fig. 49*

**Fig. 50**

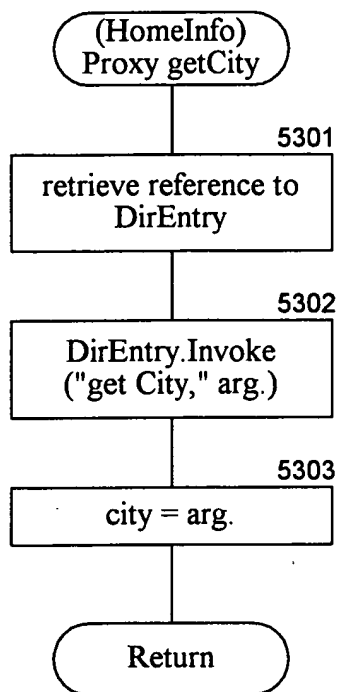




**Fig. 51**



**Fig. 52**



**Fig. 53**